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# LEADing Practices for Custom & Border Service Geographical Information Systems



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#### To be used: Custom & Border Service GIS Best Practice & Custom & Border Service GIS Leading Practices

- 1. Geodetic reference framework
- 2. Custom & Border Service GIS Meta Data records <u>http://Custom & Border Service</u> <u>GISinventory.net/index.php?page\_id=802</u>

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3. LEADing Practice Custom & Border Service user Group: http://www.leadingpractice.com/get-involved/user-groups/Custom & Border Service/

4. LEADing Practice Geographical Information System Frameworks and templates for integration between business and Application Layer (Information & Data) as well as to Technology Layer (Platform & Infrastructure) Information <u>http://www.leadingpractice.com/frameworks/</u>

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In this presentation the unique LEADing Practice Custom & Border Service GIS concept will be presented:

- The LEADing Practice Custom & Border Service Custom & Border Service GIS concept has a consolidated and harmonized:
  - > Way of Thinking
  - > Way of Working
  - Way of Modelling
  - Way of Implementing
  - > Way of Governance
  - > Way of Training
- The LEADing Practice Custom & Border Service GIS concept has a crossdisciplinary enterprise modelling and architecture concept. With complete enterprise modelling capabilities, including transformation and change management. The GID modelling principles are fully integrated and interlinked.
- Has a fully integrated built-in Custom & Border Service GIS governance & continuous improvement approach.

### The LEADing Practice Geographical Information System Concept

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# The LEADing Practice Geographical Information System Structural Way

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#### The LEADing Practice Geographical Information System Structural Way of Thinking

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### The LEADing Practice Geographical Information System Structural Way of Thinking

Custom & Border Service GIS Way of Thinking ("welt anschauung"): The Custom & Border Service GIS way of thinking is essential and the starting point of the structural Custom & Border Service GIS approach.

Each Custom & Border Service GIS project practitioner has to be able to have an abstraction level which can analyze, appraise, approximate, assess and capture the relevant Custom & Border Service GIS objects as well as Custom & Border Service GIS artifacts idea, design, plan, scheme and structure in order to understand the underlying Custom & Border Service GIS thought, view, vision as well as perspective.

This enables all the Custom & Border Service GIS project participants to have the same structural Custom & Border Service GIS approach around strategic definitions (wants, needs, direction, issues and problems).



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### Architecture Custom & Border Service GIS Modelling: Geographical Information System Way of Thinking

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"Geographical Information System (Custom & Border Service GIS)" have emerged as a powerful tool which have the potential to organize complex spatial environment with relationships across Custom & Border Service departments. The emphasis is on developing a digital spatial information model with a supporting database using the information derived from precise navigation and imaging satellites, aircrafts, digitization of maps and transactional databases. The potential of Custom & Border Service GIS is limited only by ones way to actually map the information/data to ones specific business functions, reporting and decision making. However to exploit the benefits there is need to initiate a relation between the architectural layers of Business, Application and Technology:

#### **Business Layer aspects**

- 1. Link to Custom & Border Service GIS strategy and political direction
- 2. Standardizing Business Competencies & Functions around the information usage
- 3. Define Process Standard in all the different business areas using geospatial information
- 4. Have a Service oriented Custom & Border Service GIS model in place (servicing multiple departments and groups)

#### Information & Data layer aspects

- 1. Identification of all existing policies and directives, linking them to information objects and reporting
- 2. Enabling Custom & Border Service Decision Making based on geospatial information model
- 3. Assuring quality of information
- 4. Applying Best practices and applications
- 5. Data Management, including Data standards, data types, authoritative data, data provisioning and identifying data issues. As well as geospatial data collection, management and dissemination

#### Technology

- Platform aspects: Logical and Physical platform components, services and devices handling Custom & Border Service GIS information and data
- 2. Infrastructure aspects: Logical and Physical infrastructure components and services handling Custom

#### **Geographical Information System Way of Thinking**

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### The LEADing Practice Geographical Information System Structural Way of Working

#### **Custom & Border Service GIS Way of Working:** Important and the point where the Custom & Border Service GIS project participants begin to structure the Custom & Border Service GIS way of working.

Each Custom & Border Service GIS project participant has to be able to translate the "Custom" & Border Service GIS Way of Thinking" into a "Way of Working", thereby organizing, classifying, align, arrange, quantify, recommend and select the relevant Custom & Border Service GIS objects and or artifacts in the systemized and categorized way they need to be de-composed or composed together in order to fulfill the Custom & Border Service Agency Geographical Information System needs and wants

This enables Custom & Border Service GIS project participant to structure the arrangement of effort and work.





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The purpose of LEAD Custom & Border Service GIS objects is to:

- Decompose the relevant Geographical Information System objects into the smallest parts that can, should and needs to decomposed in order to have identified all the relevant Geographical Information System. These decomposed, Geographical Information System objects are than composed together (through maps, matrices and models).
- Visualize and clarify object relationships with the LEAD Custom & Border Service GIS templates by using the specific Custom & Border Service GIS maps, matrices and models (alternative representation of information).
- Reduce and/or enhance complexity of the Custom & Border Service Agencies in order to be able to reduce it to the information and objects relevant to the Geographical Information System solution.

### The LEADing Practice Geographical Information System Tailoring: Map, Matrices and Models

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LEAD has fully integrated Geographical Information System maps, matrices and models that work with and integrates with the methods and approaches and work throughout all of the layers relevant to set up a cross Custom & Border Service Agency Geographical Information System .

**LEAD Custom & Border Service GIS Map:** Within the LEADing Practice Geographical Information System templates, a LEAD Custom & Border Service GIS Map is an accurate list and representation of the decomposed and/or composed LEAD Geographical Information System Objects. A Custom & Border Service GIS Map is often in the form of a list that can be in a simple row as well as a catalog, and has the purpose of building an inventory or index list of the Custom & Border Service GIS objects that are to be either decomposed and/or composed in the different Architectural Layers (e.g. Business Layer, Application Layer and/or Technology Layer).

**LEAD Custom & Border Service GIS Matrix:** Within LEADing Practice Geographical Information System templates, a LEAD Custom & Border Service GIS Matrix is a representation that accurately shows the relationship between specific decomposed and composed Geographical Information System Objects. The core idea of a Custom & Border Service GIS matrix is that it typically consists of aspects of one idea each in a list of row, another idea as a set of columns and a third as the cross product between the rows and columns. This allows the Custom & Border Service GIS Matrix to relate the unfamiliar to the familiar objects in the different layers (composition) usually through the form of a table or chart e.g. rows and columns in a matrix, thereby outlining direct connection points and showing a common pattern of the Geographical Information System Objects.

**LEAD Custom & Border Service GIS Model** Within the LEADing Practice Geographical Information System templates, a Custom & Border Service GIS Model is a representation that graphically shows the relationship and the interconnection of specific composed Geographical Information System Objects. The key ideal of a Custom & Border Service GIS model is that it is a graphical representation, an

# The Way of Working - Geographical Information System ((C)) EAD Strategy & Goal templates



### The Way of Working - Geographical Information System Strategy & Goal Tasks

#### **Relation to Strategy**

- Analyze Custom & Border Service Agencies strategy
- Identify relevant policies
- > Outline strategic business objectives (SBO's) for the joint Custom & Border Service GIS solution

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- Define specific Custom & Border Service Agencies Custom & Border Service GIS strategy (where needed)
- > Develop and formalize Custom & Border Service GIS goals

#### **Focus Area**

- > Custom & Border Service Agencies Custom & Border Service GIS strategy development
- > Agree on common Custom & Border Service Agencies Custom & Border Service GIS design
- > Identify Custom & Border Service GIS requirements across Custom & Border Service Agencies
- > Focus on Geographical Information System issues and weaknesses cluster
- > Develop Geographical Information System standards
- Ensure Custom & Border Service GIS measurements (across Custom & Border Service Agencies)
- > Enable Custom & Border Service GIS reporting and decision flow
- > Define the Value model of the joint Custom & Border Service GIS development

### The Way of Working - Geographical Information System Strategy & Goal Tasks

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#### **Tasks & Services**

- > Analyze CAN, WANT and SHOULD do scenarios
- Analyze and benchmark the different Custom & Border Service Agencies specific Custom & Border Service GIS strategies
- > Define the various Custom & Border Service Agencies value expectations
- Identify Custom & Border Service GIS bottlenecks including root cause and impact analysis
- > Define Custom & Border Service Agencies transformation need
- Identify and develop common Custom & Border Service Agencies Custom & Border Service GIS strategic business objectives (SBOs) and critical success factors (CSFs)
- Develop Custom & Border Service GIS guidelines and measurements
- > Ensure Custom & Border Service GIS reporting and decision making flow
- Develop common Custom & Border Service GIS policies and guidelines

#### The LEADing Practice Geographical Information System Way of Working - Business Layer: Custom & Border Service GIS Strategy & Goal templates

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|         | LEADing Practice GIS<br>Maps, Matrices and<br>Models                   | GIS Vision, Mission & Goals (VMG) | GIS Requirement (Rq) | Stakeholder (ST) | GIS Strategy (S) | GIS Balanced Scorecard (BSC) | GIS Performance (Pe) | GIS Measurement & Reporting (MR) | Business Competency/Business Model 1 | GIS Information (I) | GIS Owner (O) | GIS Services (Se) | GIS System Measurements/Reporting (AM) | he |
|---------|--|-----------------------------------|----------------------|------------------|------------------|------------------------------|----------------------|----------------------------------|--------------------------------------|---------------------|---------------|-------------------|--|----|
|         | GIS Vision & Mission   | 1                                 |                      |                  | 2                |                              |                      |                                  |                                      |                     |               |                   |  |    |
|         | Government Agency Strategy   |                                   | 2                    |                  | 1,2,3            |                              |                      |                                  | 2,3                                  |                     |               | 2                 |  |    |
|         | Agency Goal (e.g. business, information etc)                           | 2                                 | 2                    |                  | 2                |                              |                      |                                  |                                      |                     |               | 2                 |  |    |
| Goal    | Agency Objectives (Critical Success Factor, Plan,<br>Forecast, Budget) |                                   |                      |                  | 1,2,3            | 1                            |                      | 2,3                              | 2,3                                  |                     |               | 2                 |  |    |
| Š       | (Strategic Tactical or Operational KPI)                                |                                   |                      |                  | 2,3              | 1                            | 1,2,3                | 2,3                              | 2                                    |                     |               | 2                 | 2                                      |    |
| Purpose | Agency Value Expectation   |                                   | 1,2                  | 1                | 2                |                              |                      |                                  |                                      |                     |               | 2                 |  |    |
| Pu      | Agency Value Driver  |                                   |                      | 1,2,3            |                  |                              |                      |                                  | 2                                    |                     |               |                   |  |    |
|         | Agency Performance Expectation   |                                   | 1,2                  | 1,2              |                  |                              |                      |                                  |                                      |                     |               | 2                 |  |    |
|         | Agency Performance Driver  |                                   |                      | 2,3              |                  |                              | 2,3                  |                                  | 2                                    |                     |               |                   |  |    |
|         | Agency Policies & Reporting  |                                   | 1,2                  |                  | 2                | 2                            | 2                    | 1,2,3                            | 2,3                                  | 2                   | 1,2           |                   |  |    |
| 1-      | Map 2-Matrix 2-Model   |                                   |                      |                  | •                | •                            |                      | A nort o                         |                                      | A D :               |               | CIC Tour          |  |    |

1=Map 2=Matrix 3=Model

A part of the LEADing Practice GIS Templates

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#### The Way of Working - Geographical Information System Competency Templates

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### The Way of Working - Geographical Information System: Agency Competency Tasks



#### **Relation to Strategy**

- Analyze relevant Agency Competencies
- > Link Custom & Border Service GIS Strategy map to relevant Agency Competencies
- > Identify and define relevant Agency Competencies transformation drivers
- > Understand business model of the involved Agencies
- Develop Custom & Border Service GIS business model based on strategic Custom & Border Service GIS alignment

#### **Focus Area**

- Custom & Border Service GIS Business model development (level 1, 2 and 3)
- > Develop map of common agency competencies and business functions
- Identify organizational specific requirements
- > Focus on Custom & Border Service GIS specific challenges and issues
- > Develop Custom & Border Service GIS business concept design
- > Develop Custom & Border Service GIS business standards
- > Ensure business integration, optimization and improvement (across agencies)
- > Custom & Border Service GIS Business architecture strategy and alignment
- > Custom & Border Service GIS Scorecard map alignment across multiple agencies and branches

### The Way of Working - Geographical Information System: Agency Competency Tasks



### **Tasks & Services**

- Identify and define the different Custom & Border Service agency competency areas, groups and operational competencies
- Define organizational transformation need
- Identify core competitive and core differentiated Custom & Border Service agency competencies/services and or information
- Identify the different Custom & Border Service agency non-core competencies for cost cutting and full standardization
- Identify business functions and select business tasks that need the Custom & Border Service GIS information
- Identify level of Custom & Border Service GIS business standardization and integration
- Develop Custom & Border Service GIS business measurements and reporting
- Assess and develop the different Custom & Border Service agency competency maturity levels across agency/departments

#### The LEADing Practice Geographical Information System Way of Working - Business Layer: Custom & Border Service GIS Competency templates

|        | LEADing Practice GIS Maps,<br>Matrices and Models | GIS Vision, Mission & C | GIS Requirement (Rai) | Stakeholder (ST) | Business Competenc. | GIS Operating (Op) | GIS Information (I) | GIS Role (Ro) | GIS Owner (o) | GIS Objects (Ob) | Workflow (WF) | Rule (Ru) | Channel (Ch) | Media (Me) | BPM Notations (BPANN) | GIS Services (Se) | GIS Application Servit | GIS Application Roloc (AS) | GIS Application Rules (ARo) | GIS System Measurement ( | GIS Compliance (C ) | . / |
|--------|---|-------------------------|-----------------------|------------------|---------------------|--------------------|---------------------|---------------|---------------|------------------|---------------|-----------|--------------|------------|-----------------------|-------------------|------------------------|----------------------------|-----------------------------|--------------------------|---------------------|-----|
|        | Agency Organizational Construct                   |                         |                       |                  | 2                   |                    |                     |               |               |                  |               |           |              |            |                       |                   |                        |                            |                             |                          |                     |     |
|        | Agency Department Areas                           |                         |                       | 2                | 1,2,3               | 1                  |                     |               |               |                  |               |           |              |            |                       |                   |                        |                            |                             |                          |                     |     |
|        | Agency Department Groups                          |                         |                       | 2                | 1,2,3               | 1                  |                     |               |               |                  |               |           |              |            |                       |                   |                        |                            |                             |                          |                     |     |
|        | Agency Capabilities                               |                         | 1,2                   |                  | 2                   | 1,2                |                     |               |               |                  |               |           |              |            |                       |                   |                        |                            |                             |                          |                     |     |
| 2      | Agency Department Business Function               |                         | 1,2                   |                  | 1,2,3               | 1                  |                     |               |               |                  |               |           |              |            |                       |                   |                        |                            |                             |                          |                     |     |
| etencv | Agency Department Resources                       |                         | 1,2                   |                  | 2,3                 | 1,3                |                     |               |               |                  |               |           |              |            |                       | 2                 |                        |                            |                             |                          |                     |     |
| bet    |   |                         |                       |                  | 2,3                 | 1,3                |                     | 1,2           |               |                  |               |           |              |            |                       | 2                 |                        | 2                          |                             |                          |                     |     |
| Com    | Agency Competency Type (Diff, Comp, Non-<br>Core) |                         |                       |                  | 1,2,3               | 1,3                |                     |               |               |                  |               |           |              |            |                       | 2                 |                        |                            |                             |                          |                     |     |
| 2      | Object (Business & Information)                   |                         |                       |                  |                     |                    | 3                   |               |               | 1,2              | 3             | 2         |              |            |                       |                   |                        |                            |                             |                          |                     |     |
| Agency | Agency Business Owner                             | 2                       | 1,2                   |                  | 2,3                 |                    | 2                   |               | 1,2           |                  |               |           |              |            |                       |                   |                        |                            |                             | 1,3                      |                     |     |
| A      | Agency Department Policies & Rules                |                         | 1,2                   |                  |                     |                    |                     |               |               | 2                |               | 1,2       |              |            | 3                     |                   |                        |                            | 2                           |                          | 2                   |     |
|        | Agency Department Compliance                      |                         | 1,2                   |                  |                     |                    |                     |               |               |                  |               | 2,3       |              |            |                       |                   |                        |                            |                             |                          |                     |     |
|        | Business Channels                                 |                         | 1,2                   |                  |                     |                    |                     |               |               |                  |               |           | 1,2          | 2          |                       |                   |                        |                            |                             |                          |                     |     |
|        | Business Media                                    |                         | 1,2                   |                  |                     |                    |                     |               |               |                  |               |           | 2            | 1,2        |                       |                   |                        |                            |                             |                          |                     |     |
|        | Agency Business Workflow                          |                         | 1,2                   |                  | 2                   |                    |                     |               |               |                  | 1,2           |           |              |            |                       | 2                 | 2                      |                            |                             |                          |                     |     |
| 1=     | Map 2=Matrix 3=Model                              |                         |                       |                  |                     |                    |                     |               |               |                  |               |           | A pa         | art of     | the L                 | EADi              | ng Pr                  | actice                     | GIS                         | Templ                    | lates               |     |

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# The Way of Working - Geographical Information System ((C)) EAD Process Templates



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#### **Relation to Strategy**

- Ensure Custom & Border Service GIS execution planning in aligning process goals to business goals and objectives
- Enable business decision making through real time Custom & Border Service GIS information and Custom & Border Service GIS process measurement (link PPI's to KPI's)
- Link process transformation activities to the different Custom & Border Service agency
- Work with the different Custom & Border Service agency process owners, business owners and executives to ensure Custom & Border Service GIS governance and Continuous improvement

### **Focus Area**

- Analyze the different Custom & Border Service agency business process requirements
- Ensure that the different Custom & Border Service agency process design is based on Custom & Border Service GIS information and transformation need
- Custom & Border Service GIS Process implementation to guarantee Custom & Border Service GIS business standardization
- Start define link to Custom & Border Service GIS Continuous process

### **Business Layer: Business Process** Way of Working – Tactical Aspect Tasks

### Tasks & Services

- > Benchmark Custom & Border Service GIS maturity levels
- Categorize Custom & Border Service GIS processes according to the main, management and supporting processes
- Identify and categorize Custom & Border Service GIS relevant process area and group

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- Identify the different Custom & Border Service agency business functions/tasks and services in the process workflow
- Identify relevant Custom & Border Service GIS business objects, information objects and data objects
- Ensure that the Custom & Border Service GIS system flow encompasses the organizations service, information and process flow
- Analyze and design business processes to ensure business and Custom & Border Service GIS IT standardization and integration
- Setup process measures and ensure the level of automation e.g. system measurements
- Develop business monitoring and reports in cockpits, dashboards and scorecards
- Identify business rules and ensure process compliance
- Ensure interlink between Custom & Border Service GIS Business and Process Ownership

www.LEAPingProting or process models incorporate right Custom & Border Service GIS process

#### The LEADing Practice Geographical Information System Way of Working - Business Layer: Custom & Border Service GIS Process templates

| LEADing Practice GIS Maps,<br>Matrices and Models  | GIS Requirement ( <sub>Ro</sub> ) | Stakeholder (ST) | GIS Performance (Pe) | GIS Measurement & Rows | Business Competency/a | GIS Operating (Op) | GIS Owner (0) | GIS Objects (Ob)                             | Workflow (WF) | Rule (Ru) | Process (p) | BPM Notations (BPMN) | GIS Services (Se) | GIS Applications (A) | GIS Application Service ( 200 | GIS Application Rules (Ab) | GIS System Measurem | GIS Application Interface (AM) | GIS Information Screen (A.) | GIS Compliance (C) |   |
|--|-----------------------------------|------------------|----------------------|------------------------|-----------------------|--------------------|---------------|--|---------------|-----------|-------------|----------------------|-------------------|----------------------|-------------------------------|----------------------------|---------------------|--------------------------------|-----------------------------|--------------------|---|
| Agency Process Area (categorization)   |                                   |                  |                      |                        | 2                     | 1                  |               |  |               |           | 1,2         |                      |                   |                      |                               |                            |                     |                                |                             |                    |   |
| Agency Process Group (categorization)  |                                   |                  |                      |                        | 2                     | 1                  |               |  |               |           | 1,2         | 3                    |                   |                      |                               |                            |                     |                                |                             |                    | l |
| Agency Business Process  | 1,2                               |                  |                      |                        | 2                     | 1                  |               |  |               |           | 1,2         | 3                    | 2                 | 2                    |                               |                            |                     |                                |                             |                    | l |
| Agency Process Step  |                                   |                  |                      |                        |                       |                    |               |  |               |           | 1,2         | 3                    | 2                 | 2                    |                               |                            |                     |                                |                             |                    |   |
| Agency Process Activity Agency Events Agency Catewaye  |                                   |                  |                      |                        |                       |                    |               |  |               |           | 1,2         | 3                    | 2                 | 2                    |                               |                            |                     |                                |                             |                    | l |
| Agency Events  |                                   |                  |                      |                        |                       |                    |               |  |               |           | 1           | 3                    | 2                 |                      | 3                             |                            |                     |                                |                             |                    | l |
| Agency Galeways  |                                   |                  |                      |                        |                       |                    |               |  |               | 2         | 1           | 3                    | 2                 |                      | 3                             |                            |                     |                                |                             |                    | l |
| Agency Object (Business & Information &<br>Data)<br>Agency Process Type (main/mgmt./support) |                                   |                  |                      |                        |                       |                    |               | 1,2  |               |           | 3           | 3                    | 2                 |                      |                               |                            |                     |                                |                             |                    |   |
| Agency Process Type (main/mgmt./support)   |                                   |                  |                      |                        |                       | 2                  |               |  |               |           | 1           |                      |                   |                      |                               |                            |                     |                                |                             |                    |   |
| Agency Process Flow (incl. Input/output)   |                                   |                  |                      |                        |                       |                    |               |  | 1,2           |           | 3           | 3                    | 2                 |                      | 3                             |                            |                     | 3                              | 3                           |                    |   |
| Agency Process Rules   |                                   |                  |                      |                        |                       |                    |               |  |               | 1,2       | 2           | 3                    |                   |                      |                               | 2                          |                     |                                |                             | 2                  |   |
| Agency Process Measurement (PPI)   |                                   |                  | 1,2                  | 1,2                    |                       |                    |               |  |               |           | 2           | 3                    |                   |                      |                               |                            | 2                   |                                |                             |                    |   |
| Agency Process Owner   |                                   | 2                |                      |                        |                       | 1,2                | 1,2           |  |               |           | 2           |                      |                   |                      |                               |                            |                     |                                |                             |                    |   |
| 1=Map 2=Matrix 3=Model   |                                   |                  | •                    | •                      |                       |                    |               | A part of the LEADing Practice GIS Templates |               |           |             |                      |                   |                      |                               |                            |                     |                                |                             |                    |   |

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# The Way of Working - Geographical Information System ((C)) EAD Service Templates



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#### **Relation to Strategy**

- Capture the different Custom & Border Service agency service purpose and goals
- Align the different Custom & Border Service agency business service to the specified Custom & Border Service GIS strategy
- Define the different Custom & Border Service agency service transformation needs and wants

#### Focus Area

- Identify Custom & Border Service GIS service requirements
- Focus on service issues and weaknesses cluster
- Develop service standards
- Ensure service integration (across business areas and systems/data)
- Interlink Custom & Border Service GIS service aspects to the Governance & Continuous improvement approach

## Business Layer: Business Service Custom & Border Service GIS Way of Working – Tac Aspect Tasks

### Tasks & Services

- Identify and define Custom & Border Service GIS service flow (data and information service provider and service consumer)
- Service construct and delivery in all the different Custom & Border Service agencies
- Identify and define service level agreements (SLA's) and service measurements throughout the different Custom & Border Service agencies
- Benchmark Custom & Border Service GIS application, data and information service maturity
- Identify and define Custom & Border Service GIS service media, channel and tiers
- Identify and define Custom & Border Service GIS service enablement needs e.g. Cloud such a SaaS, DaaS, PaaS, IaaS.
- Identify and define Custom & Border Service GIS service map and service flow

#### The LEADing Practice Geographical Information System Way of Working - Business Layer: Custom & Border Service GIS Service templates

| EADing Practice GIS Maps,<br>Matrices and Models        | GIS Requirement (Ra) | Stakeholder (57) | GIS Performance (Pe) | GIS Measurement & Boocci | Business Competency/Business | GIS Operating (Op) | GIS Information (I) | GIS Role (Ro) | GIS Owner (O) | GIS Objects (Ob) | Workflow (WF) | Rule (Ru) | Channel (Ch) | Media (Me) | BPM Notations (BPMN) | GIS Services (Se) | GIS Application Service 122 | GIS Application Rules (As) | GIS Data Service (DS) | GIS Platform Service (PLS) | GIS Infrastructure Service (IFS) |
|---|----------------------|------------------|----------------------|--------------------------|------------------------------|--------------------|---------------------|---------------|---------------|------------------|---------------|-----------|--------------|------------|----------------------|-------------------|-----------------------------|----------------------------|-----------------------|----------------------------|----------------------------------|
| Service Construct (setup & delivery)                    |                      | 3                |                      |                          | 2                            | 3                  |                     |               |               |                  |               |           |              |            |                      | 1,2,3             |                             |                            |                       |                            |                                  |
| Agency Service Area                                     |                      |                  |                      |                          |                              |                    |                     |               |               |                  |               |           |              |            |                      | 1,2               |                             |                            |                       |                            |                                  |
| Agency Department Service Groups                        |                      |                  |                      |                          | ſ                            |                    |                     |               |               |                  |               |           |              |            |                      | 1,2               |                             |                            |                       |                            |                                  |
| Agency Business Service                                 | 1,2                  |                  |                      |                          |                              |                    |                     |               |               |                  |               |           |              |            | 2,3                  | 1,2,3             | 2                           |                            | 2                     | 2                          | 2                                |
| Agency Service Type (Main/Mgmt./Support)                |                      |                  |                      |                          |                              |                    |                     |               |               |                  |               |           |              |            | 2,3                  | 1,2               |                             |                            |                       |                            |                                  |
| Agency Service Flow (incl. output/input)                |                      |                  |                      |                          |                              |                    |                     |               |               |                  | 2, 3          |           |              |            |                      | 1,2               |                             |                            | 2                     | 2                          | 2                                |
| Agency Service Tier<br>(Strategic/Tactical/Operational) |                      |                  |                      |                          |                              |                    |                     |               |               |                  |               | 2         |              |            |                      | 1,2               |                             |                            |                       |                            |                                  |
| Agency Department Object (Business &<br>Information)    |                      |                  |                      |                          |                              |                    | 1,2,3               |               |               | 1,2              | 3             | 2         |              |            | 2,3                  | 2                 |                             |                            |                       |                            |                                  |
| Agency Service Measurements (Level<br>Agreements)       |                      |                  | 2,3                  | 2,3                      |                              |                    |                     |               |               |                  |               |           |              |            |                      | 2,3               |                             |                            |                       |                            |                                  |
| Agency Service Owner                                    |                      | 2                |                      |                          |                              | 1,2                |                     |               | 1,2           |                  |               |           |              |            |                      | 2                 |                             |                            |                       |                            |                                  |
| Agency Service Roles                                    |                      |                  |                      |                          |                              |                    |                     | 1,2           |               |                  |               |           |              |            | 2,3                  | 2                 |                             |                            |                       |                            |                                  |
| Agency Service Rules                                    |                      |                  |                      |                          |                              |                    |                     |               |               |                  |               | 1,2       |              |            |                      | 2                 |                             | 2                          |                       |                            |                                  |
| Agency Service Channel                                  |                      | 1                |                      |                          |                              |                    |                     |               |               |                  |               |           | 1            | 1          |                      | 1,2               |                             | t                          | t'                    |                            |                                  |

1=Map 2=Matrix 3=Model

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### Architecture Custom & Border Service GIS Modelling: Geographical Information System Application Templates

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#### **Relation to Strategy**

- Develop Custom & Border Service GIS information systems solutions (application solutions) based on business/IT Custom & Border Service GIS requirements
- Define Custom & Border Service GIS solution functions linked to business functions
- Develop Custom & Border Service GIS solutions and goals based on operational objectives from the different Custom & Border Service agencies
- Link business KPI's to system KPI's
- Ensure correct system reporting in terms of reports, cockpits, dashboards and scorecards

### **Focus Area**

- Identify Custom & Border Service GIS application requirements and goals
- Business and IT (application/software) design
- Focus on Custom & Border Service GIS application development and configuration (solutions/projects)
- Develop Custom & Border Service GIS application standards for the different Custom & Border Service agencies
- Ensure application integration where needed

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# Application Layer: Application Custom & Border Service GIS Way of Working – Tac

## Aspect Tasks

#### Tasks & Services

- Benchmark Custom & Border Service GIS application maturity
- Define level of application service standardization and integration throughout the different Custom & Border Service agencies
- Develop application functions, tasks and features based on agreed level of standardization
- Identify application to application (data/information) communication
- Identify application components and services
- Define application components and modules
- Define information objects and system flow
- Design system measurements and reports
- > Select application functions, tasks, features and services that need to be integrated
- Define Custom & Border Service GIS roles (users)
- Define application rules
- > Ensure information compliance to governance, business, process and service rules
- Develop Custom & Border Service GIS system flow for all the relevant Custom & Border Service agencies
- > Enable various application channels and media
- Enable devices to work with Custom & Border Service GIS information
- Set up system measures and monitoring
- > Develop system cockpits, dashboards and scorecards

#### The LEADing Practice Geographical Information System Way of Working - Application Layer: Custom & Border Service GIS Application templates

| L                 | EA        | D Objects with LEAD Maps,<br>Matrices and Models | GIS Requirement in | GIS Measurement o | Business Comparation (MR) | GIS Information (1) | GIS Role (Ro) | GIS Owner (Q) | Process (p) | BPM Notations (BpAAN) | GIS Services (Se) | GIS Applications (a) | GIS Application Source | GIS Application Bol | GIS Application B. ( | GIS System Measure | GIS Application Int. (AM) | GIS Information c | GIS Compliance (C.) | GIS Data (D) | GIS Data Service / | GIS Data Rules (no.) | GIS Platforms (p.) | GIS Platform Service (c | GIS Platform Distribute | (ald) nonmarc |
|-------------------|-----------|--|--------------------|-------------------|---------------------------|---------------------|---------------|---------------|-------------|-----------------------|-------------------|----------------------|------------------------|---------------------|----------------------|--------------------|---------------------------|-------------------|---------------------|--------------|--------------------|----------------------|--------------------|-------------------------|-------------------------|---------------|
|                   |           | Logical GIS Application Component                |                    |                   |                           |                     |               |               |             |                       |                   | 1,3                  |                        |                     |                      |                    | 1,3                       |                   |                     |              |                    |                      | 3                  |                         | 3                       |               |
|                   |           | Physical GIS Application Component               |                    |                   |                           |                     |               |               |             |                       |                   | 1                    |                        |                     |                      |                    |                           |                   |                     | 2,3          |                    |                      | 3                  |                         |                         |               |
|                   |           | GIS Application Module                           |                    |                   |                           |                     |               |               |             |                       |                   | 1,3                  |                        |                     |                      |                    | 1,3                       |                   |                     |              |                    |                      |                    |                         |                         |               |
|                   |           | GIS Application Feature                          | 1,2                |                   |                           |                     |               |               |             |                       |                   | 1                    |                        |                     |                      |                    |                           |                   |                     |              |                    |                      |                    |                         |                         |               |
| _                 |           | GIS Application Function                         | 1,2                |                   | 2                         |                     |               |               |             | 2,3                   |                   | 1,2,3                |                        |                     | 2                    | 1                  | 1,3                       |                   |                     |              |                    |                      |                    | 2                       |                         |               |
| Ve                |           | GIS Application Task                             |                    |                   |                           |                     |               |               |             | 2,3                   |                   | 1,2                  | 2,3                    | 2                   |                      | 2                  |                           | 1                 |                     | 2            |                    |                      |                    |                         |                         |               |
| Ľa                | <b>N</b>  | GIS Application Service                          | 1,2                |                   |                           |                     |               |               |             | 2,3                   | 2,3               | 1,2,3                | 1,2,3                  | 2                   |                      |                    | 1,2,3                     |                   | 2                   | 2            | 3                  |                      | 2                  | 2                       |                         |               |
| Application Layer | plication | GIS System flow                                  |                    |                   |                           |                     |               |               |             |                       |                   |                      | 1,3                    |                     |                      | 3                  | 3                         | 3                 |                     |              |                    |                      |                    |                         |                         |               |
| ti                | <u>::</u> | GIS System Measurements                          |                    | 1                 |                           |                     |               |               | 2           | 2,3                   |                   | 2                    |                        |                     |                      | 1,3                |                           |                   | 2                   |              |                    |                      |                    |                         |                         |               |
| ica               | pp        | GIS System Reports                               |                    | 2,3               |                           |                     |               |               |             |                       |                   | 2                    |                        |                     |                      | 1,2,3              |                           |                   |                     |              |                    |                      |                    |                         |                         |               |
| d                 | A         | GIS System Owner                                 |                    |                   |                           |                     |               | 1,2           |             |                       |                   | 1                    | 1                      |                     |                      | 2,3                | 1                         |                   | 2                   |              |                    |                      |                    |                         |                         |               |
| Ap                |           | GIS Application Roles                            |                    |                   |                           |                     | 1,2           |               |             |                       |                   |                      | 3                      | 1,2                 |                      |                    |                           | 1                 |                     |              |                    |                      |                    |                         |                         |               |
|                   |           | GIS Object (Information & Data)                  |                    |                   |                           | 1,2                 |               |               |             | 2,3                   |                   |                      | 3                      |                     |                      | 2,3                | 2,3                       |                   |                     |              |                    |                      |                    |                         |                         |               |
|                   |           | GIS Application Rules                            |                    |                   |                           |                     |               |               |             |                       |                   |                      | 3                      |                     | 1,2                  | 2                  |                           | 3                 | 1,2                 |              |                    |                      |                    |                         |                         |               |
|                   |           | GIS Application Compliance                       |                    |                   |                           |                     |               |               |             |                       |                   |                      |                        |                     |                      | 2                  |                           |                   | 1,2                 |              |                    |                      |                    |                         |                         |               |
|                   |           | GIS Application Channel                          |                    |                   |                           |                     |               |               |             |                       |                   | 3                    |                        |                     |                      |                    | 1,2,3                     | 1                 |                     |              |                    |                      | 2,3                |                         |                         |               |
|                   |           | GIS Application Media                            |                    |                   |                           |                     |               |               |             |                       |                   |                      |                        |                     |                      |                    | 2                         | 1                 |                     |              |                    |                      | 2,3                |                         |                         |               |
| Ma                | p         | 2=Matrix 3=Model                                 |                    |                   |                           |                     |               |               |             |                       |                   |                      |                        |                     | ŀ                    | \ par              | tof                       | the L             | EAD                 | ing F        | ract               | ice G                | IS Te              | empla                   | ates                    |               |

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# The Way of Working - Geographical Information System Data Templates

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### **Application Layer: Data**

## Custom & Border Service GIS Way of Thinking – Strate ((S)) EAD Aspect Tasks

## Relation to Strategy

- Develop Custom & Border Service GIS data warehouse based on business/IT requirements
- Develop Custom & Border Service GIS data solutions and goals based on the different operational the Custom & Border Service agencies objectives
- Link the different Custom & Border Service agencies business KPI's to system KPI's
- Ensure correct data reporting in terms of system reports, cockpits, dashboards and scorecards

### **Focus Area**

- Identify Custom & Border Service GIS data requirements and goals
- Map the relevant information and data objects
- Agree on Data structure
- > Define data types (master data, meta data and classifications)
- Custom & Border Service GIS solution (data) design
- Develop data standards
- Focus on data development and configuration (solutions/projects) considering the different Custom & Border Service agencies data and information usage
- Ensure data integration

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### Tasks & Services

- > Develop and define data components (logical and physical)
- Identify Data entities and data types
- > Benchmark data maturity throughout the entire data flow
- Ensure data services are enabled
- > Define new information and data objects and system flow
- Develop Custom & Border Service GIS data rules
- Define data standardization level
- Define data integration needs and wants
- Check when Data as a Service (DaaS) can be used for cloud enabled data sharing and usage

- Ensure data compliance to governance, Custom & Border Service agencies business information usage, process, application and service rules
- Develop data flow
- > Enable data Custom & Border Service GIS channels and media
- > Enable devices to work with Custom & Border Service GIS data
- Set up data measures and monitoring
The LEADing Practice Geographical Information System Way of Working - Application Layer: Custom & Border Service GIS Data templates

| ſ    | LEAD Objects with LEAD<br>Maps, Matrices and Models | GIS Requirement (R. ) | GIS Information (I) | GIS Owner (O) | BPM Notations (BPMAN) | GIS Services (Se) | GIS Application Service | GIS System Measured (AS) | GIS Application Interfer | GIS Compliance (C) | GIS Data (D) | GIS Data Service (Dc) | GIS Data Rules (DR) | GIS Platforms (PL) | GIS Platform Service (PLC) | la . |
|------|---|-----------------------|---------------------|---------------|-----------------------|-------------------|-------------------------|--------------------------|--------------------------|--------------------|--------------|-----------------------|---------------------|--------------------|----------------------------|------|
|      | GIS Data Component                                  |                       |                     |               |                       |                   |                         |                          |                          |                    | 1,3          |                       |                     | 3                  |                            |      |
|      | GIS Object (Information & Data)                     |                       | 1,3                 |               | 2,3                   |                   |                         | 2,3                      | 2,3                      |                    | 1,2          |                       |                     |                    |                            |      |
|      | GIS Data Entity                                     |                       | 1                   |               |                       |                   |                         |                          |                          |                    | 1,2          |                       |                     |                    |                            |      |
|      | GIS Data Type                                       |                       |                     |               |                       |                   |                         |                          |                          |                    | 1            |                       |                     |                    |                            |      |
| B    | GIS Data Service                                    | 1,2                   |                     |               | 2,3                   | 2,3               | 2                       |                          | 1,2,3                    |                    | 1,2          | 2,3                   |                     | 2                  | 2                          |      |
| Data | GIS Data Flow                                       |                       |                     |               |                       |                   |                         |                          |                          |                    |              | 3                     |                     |                    |                            |      |
|      | GIS Data Owner                                      |                       |                     | 1,2           |                       |                   |                         | 2,3                      |                          |                    | 2            |                       |                     |                    |                            |      |
|      | GIS Data Rules                                      |                       |                     |               | 2,3                   |                   |                         |                          |                          |                    |              |                       | 1                   |                    |                            |      |
|      | GIS Data Compliance (incl. Security)                |                       | 3                   |               |                       |                   |                         |                          |                          | 1,2                | 3            |                       |                     |                    |                            |      |
|      | GIS Data Media                                      |                       |                     |               |                       |                   |                         |                          | 2,3                      |                    | 1            |                       |                     | 2,3                |                            |      |
|      | GIS Data Channel                                    |                       |                     |               |                       |                   |                         |                          |                          |                    | 1            |                       |                     | 2,3                |                            |      |
| 1=   | Map 2=Matrix 3=Model                                |                       |                     |               |                       |                   | A pai                   | rt of t                  | the LE                   | ADir               | ng Pra       | ctice                 | GIS 1               | emp                | lates                      |      |

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### The Way of Working - Geographical Information System Platform Templates

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# **Technology Layer: Platform** Way of Thinking – Strategic Aspect Tasks

### **Relation to Strategy**

Develop platform solutions based on the Custom & Border Service GIS data and information requirements

- Develop platform maturity throughout the different Custom & Border Service agencies
- Define platform services linked to the different Custom & Border Service agencies services
- Develop platform solutions based on different operational Custom & Border Service agencies objectives and goals

#### **Focus Area**

- Identify Custom & Border Service GIS platform requirements
- Develop a Platform Custom & Border Service GIS design strategy
- Focus on Custom & Border Service GIS platform development and configuration
- Develop Custom & Border Service GIS platform standards
- Ensure platform integration, harmonization, consolidation and testing
- Maintain and optimize cross agency platform development

# **Technology Layer: Platform** Way of Working – Tactical Aspect Tasks

### **Tasks & Services**

- Benchmark Custom & Border Service GIS platform maturity
- > Define Custom & Border Service GIS platform standardization and integration

- Define Custom & Border Service GIS platform components
- > Define Custom & Border Service GIS platform devices
- Develop Custom & Border Service GIS platform rules
- Develop cross agency Custom & Border Service GIS platform requirements
- > Develop Custom & Border Service GIS platform services
- Ensure platform Custom & Border Service GIS compliance to governance, business, process, service, application and data rules
- > Enable Custom & Border Service GIS platform channels
- Set up Custom & Border Service GIS platform media
- > Enable devices to work with the different Custom & Border Service GIS platforms

The LEADing Practice Geographical Information System Way of Working - Technology Layer: Custom & Border Service GIS Platform templates

| LE                   | AD Objects with LEAD Maps,<br>Matrices and Models | GIS Requirement (Rg) | GIS Owner (O) | GIS Services (Se) | GIS System Measurements /s | GIS Application Interface (Au | GIS Compliance (C ) | GIS Platforms (PL) | GIS Platform Service (p. c.) | GIS Platform Rules (PLR) | GIS Platform Distribution (PLD) |  |
|----------------------|---|----------------------|---------------|-------------------|----------------------------|-------------------------------|---------------------|--------------------|------------------------------|--------------------------|---------------------------------|--|
|                      | Logical GIS Platform Component                    |                      |               |                   |                            |                               |                     | 1,3                |                              |                          |                                 |  |
| e -                  | Physical GIS Platform Component                   |                      |               |                   |                            |                               |                     | 1,3                |                              |                          |                                 |  |
| a V                  | GIS Platform Device                               |                      |               |                   |                            |                               |                     | 1,3                |                              |                          |                                 |  |
|                      | GIS Platform Function                             | 1,2                  |               |                   |                            |                               |                     | 1,3                |                              |                          |                                 |  |
| nology I<br>blatform | GIS Platform Service                              | 1,2                  |               | 2,3               |                            |                               |                     | 1,2,3              | 2                            |                          | 3                               |  |
|                      | GIS Platform Owner                                |                      | 1,2           |                   | 2,3                        |                               |                     | 2                  |                              |                          |                                 |  |
| echnology Layer      |   |                      |               |                   |                            |                               |                     |                    |                              | 1                        |                                 |  |
| ec                   | GIS Platform Compliance (incl. Security)          |                      |               |                   |                            |                               | 1,2                 | 3                  |                              |                          | 3                               |  |
|                      | GIS Platform Media                                |                      |               |                   |                            | 2                             |                     |                    |                              |                          |                                 |  |
|                      | GIS Platform Channel                              |                      |               |                   |                            |                               |                     | 1,3                |                              |                          |                                 |  |
| 1                    | =Map 2=Matrix 3=Model                             |                      |               | A pa              | rt of t                    | the LE                        | ADing               | Practi             | ice GIS                      | 5 Temp                   | olates                          |  |

### The Way of Working - Geographical Information System Platform Templates

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# Technology Layer: Infrastructure Custom & Border Service GIS Way of Thinking – Strate ((C)) EAD Aspect Tasks

### **Relation to Strategy**

- Define Custom & Border Service GIS infrastructure services linked to the cross Custom & Border Service agency business services
- Develop Custom & Border Service GIS infrastructure solutions based on the cross Custom & Border Service agency information requirements
- Develop Custom & Border Service GIS infrastructure solutions based on the different operational Custom & Border Service agency objectives and goals
- Develop Custom & Border Service GIS infrastructure maturity throughout the Custom & Border Service agencies

### **Focus Area**

- Identify Custom & Border Service GIS infrastructure requirements
- Custom & Border Service GIS Infrastructure design strategy
- Focus on Custom & Border Service GIS infrastructure development and configuration (agency access and Information flow)
- Develop Custom & Border Service GIS infrastructure standards
- > Ensure cross agency infrastructure integration, harmonization and consolidation
- Optimize cross Custom & Border Service GIS infrastructure development and analyze where Infrastructure as a Service (IaaS) can be used within a Cloud

## Technology Layer: Infrastructure Custom & Border Service GIS Way of Working – Tactic Aspect Tasks Tasks & Services

- Benchmark Custom & Border Service GIS infrastructure maturity
- > Develop enterprise infrastructure requirements
- Define Custom & Border Service GIS infrastructure standards for all involved Custom & Border Service GIS information sources
- Ensure relevant infrastructure integration
- Define Custom & Border Service GIS relevant infrastructure components (physical and logical)
- Specify agency devices used and which infrastructure components are effected
- > Define Custom & Border Service GIS infrastructure rules
- Ensure infrastructure service usage and deployment as a Infrastructure as a Service (IaaS) within a Cloud
- Ensure Custom & Border Service GIS infrastructure compliance to governance, cross agency process, service, application, data and platform rules
- Enable Custom & Border Service GIS infrastructure channels
- Set up Custom & Border Service GIS infrastructure media
- Enable Custom & Border Service GIS access devices to work with infrastructure

The LEADing Practice Geographical Information System Way of Working - Technology Layer: Custom & Border Service GIS Infrastructure templates

| LI                      | ΕA             | D Objects with LEAD Maps,<br>Matrices and Models | GIS Requirement (Rq) | GIS Owner (O) | GIS Services (Se) | GIS System Measurements/Renoted | GIS Compliance (c ) | GIS Platform Service (PLS) | GIS Infrastructure (IF) | GIS Infrastructure Service (IFS) | GIS Infrastructure Rules (IFR) | GIS Virtualization (IFV) | GIS High Availability (IFH) |  |
|-------------------------|----------------|--|----------------------|---------------|-------------------|---------------------------------|---------------------|----------------------------|-------------------------|----------------------------------|--------------------------------|--------------------------|-----------------------------|--|
|                         |                | Logical GIS Infrastructure Component             |                      |               |                   |                                 |                     |                            | 1,3                     |                                  |                                | 3                        |                             |  |
|                         |                | Physical GIS Infrastructure Component            |                      |               |                   |                                 |                     |                            | 1,3                     |                                  |                                |                          | 3                           |  |
| )er                     | a              | GIS Infrastructure Device                        |                      |               |                   |                                 |                     |                            | 1,3                     |                                  |                                |                          |                             |  |
| ē                       | nĽ             | GIS Infrastructure Function                      |                      |               |                   |                                 |                     |                            | 1,3                     |                                  |                                |                          |                             |  |
| 2                       | <u>ic</u>      | GIS Infrastructure Feature                       | 1,2                  |               |                   |                                 |                     |                            | 1                       |                                  |                                |                          |                             |  |
| 80                      | tru            | GIS Infrastructure Service                       | 1,2                  |               | 2,3               |                                 |                     | 2                          | 1,2,3                   | 2                                |                                | 3                        | 3                           |  |
| 20                      | Infrastructure | GIS Infrastructure Owner                         |                      | 1,2           |                   | 2,3                             |                     |                            | 2                       |                                  |                                |                          |                             |  |
| ç                       | nfr            | GIS Infrastructure Rules                         |                      |               |                   |                                 |                     |                            |                         |                                  | 1                              |                          |                             |  |
| <b>Technology Layer</b> |                | GIS Infrastructure Compliance (incl. Security)   |                      |               |                   |                                 | 1,2                 |                            | 3                       |                                  |                                | 3                        | 3                           |  |
|                         |                | GIS Infrastructure Media                         |                      |               |                   |                                 |                     |                            |                         |                                  |                                |                          |                             |  |
|                         |                | GIS Infrastructure Channel                       |                      |               |                   |                                 |                     |                            | 1,3                     |                                  |                                | 3                        | 3                           |  |
|                         | 1=             | Map 2=Matrix 3=Model                             |                      |               |                   |                                 | A pa                | rt of the                  | e LEAD                  | ing Pra                          | ctice G                        | IS Tem                   | plates                      |  |

# The LEADing Practice Geographical Information System Structural Way of Modelling

#### Custom & Border Service GIS Way of Modelling:

The Custom & Border Service GIS way of modelling provides a uniform and formal description of the Geographical Information System model objects and artifacts within one or different model types using decomposition and composition modeling techniques at the different layers e.g. business, application, technology.



Structural Way of ((C))\_EADing Practice

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## The Way of Modelling - Geographical Information System Strategy & Goal templates

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# Business Layer: Purpose & Goal (Value) Custom & Border Service GIS Way of Modelling Tasks

### **Custom & Border Service GIS Modelling Tasks & Services:**

- Populate the Custom & Border Service GIS Vision, Mission & Goals map and matrices
- Fill out the Custom & Border Service GIS Requirement matrices
- Specify the Custom & Border Service GIS strategy map
- > Map all the Custom & Border Service GIS relevant policies
- Create specific Custom & Border Service GIS agency scorecards
- Create Custom & Border Service GIS goal/value matrix
- Create Custom & Border Service GIS performance measurements
- Define the Custom & Border Service GIS Measurement & Reporting matrices
- Prioritize Custom & Border Service GIS transformation initiatives
- Define the Agency Competency/Business Model
- Custom & Border Service GIS Information

#### Geographical Information System Way of Modelling: Business Layer templates: Example of Custom & Border Service GIS Goal/Value Matrix

| GIS Requirement Matrix   | GIS<br>Requirement # | Who/Whom specification e.g.<br>Stakeholder/Owner involved | Where specification e.g. Layer,<br>Objects, Area (process, service, data,<br>infrastructure) | What specification:<br>High Level GIS Requirements | What specification:<br>Detailed GIS Requirements |
|--|----------------------|---|--|--|--|
| Whither Information specification e.g. Core<br>Differentiated, Core Competitive or Non-Core<br>Information aspects | #                    |   |  |  |  |
| Why, in terms of reason specification e.g.<br>Motivation and Drivers for change                                    | #                    |   |  |  |  |
| Whither specification e.g.<br>GIS Goal & Objective<br>(Business/Application/Technology)                            | #                    |   |  |  |  |
| Which GIS expectation specification e.g. Agency GIS Value/Performance expectations                                 | #                    |   |  |  |  |
| Whither Information specification e.g. Core<br>Differentiated, Core Competitive or Non-Core<br>Information aspects | #                    |   |  |  |  |
| Why, in terms of reason specification e.g.<br>Motivation and Drivers for change                                    | #                    |   |  |  |  |
| Whither specification e.g.<br>GIS Goal & Objective<br>(Business/Application/Technology)                            | #                    |   |  |  |  |
| Which GIS expectation specification e.g. Agency GIS Value/Performance expectations                                 | #                    |   |  |  |  |
|  |                      |   | A part of the LEADing Practice   | e GIS Modelling and Architectu                     | ure Principles and Templates                     |

#### Geographical Information System Way of Modelling: Business Layer Templates: Example of Custom & Border Service GIS Requirement Matrix

|  | # | What<br>specification:<br>Custom &<br>Border Service<br>GIS<br>Information<br>needed | Why specification:<br>Custom & Border<br>Service GIS<br>Strategy (strategic<br>business<br>objective) | specification:<br>Custom &<br>Border Service<br>GIS value | Whither<br>specification:<br>Custom & Border<br>Service GIS Goal<br>(business/applic<br>ation/technology) | Service GIS<br>Objective (CSF, | What/Which<br>specification:<br>Custom & Border<br>Service GIS<br>Performance<br>Indicator<br>(Strategic/Tactica<br>I/Operational) | Custom & Border<br>Service GIS<br>Value |
|--|---|--|---|---|---|--------------------------------|--|---|
| Custom & Border<br>Service GIS<br>Requirement<br>(What is required to<br>execute the value<br>creation process)  | # |  |   |   |   |                                |  |   |
| Custom & Border<br>Service GIS Owner<br>(Whom is ultimately<br>responsible for the<br>Information usage)         | # |  |   |   |   |                                |  |   |
| Agency & Group<br>(Which area and<br>group is the Custom<br>& Border Service<br>GIS solution usage a<br>part of) | # |  |   |   |   |                                |  |   |

#### Geographical Information System Way of Modelling: Business Layer Templates: Example of Custom & Border Service GIS Measurement/Reporting Matrix

| GIS Measurement-Reporting  |  | What/whicl  | h specification:  | Where specificat  | tion:                         | Who/whom specification: |                      |  |
|--|--|---|---|---|-------------------------------|-------------------------|----------------------|--|
| Matrix   | GSI relevant<br>Measurements & Reports # | GSI Objective<br>(CSF, plan, forecast,<br>budget) | GSI Performance Indicator<br>(Strategic/Tactical/Operational) | Agency Service Measurements<br>(GSI Service Level Agreements) | Process<br>Measurements (PPI) | GSI relevant Reports    | GSI System Reports   |  |
| Policies<br>(Which policies are relevant for the<br>measurements and reporting)                            | #  |   |   |   |                               |                         |                      |  |
| Requirement<br>(What are the GSI requirements for<br>measuring and reporting results)                      | #  |   |   |   |                               |                         |                      |  |
| Agency Business Area & Group<br>(What agency business area and group<br>does the measurement and reporting | #  |   |   |   |                               |                         |                      |  |
| Agency Service Area & Group<br>(What agency service area and group<br>does the measurement and reporting   | #  |   |   |   |                               |                         |                      |  |
| Process Area & Group<br>(What process area and group does the<br>measurement and reporting belong to)      | #  |   |   |   |                               |                         |                      |  |
| Policies<br>(Which policies are relevant for the<br>measurements and reporting)                            | #  |   |   |   |                               |                         |                      |  |
| Requirement<br>(What are the GSI requirements for<br>measuring and reporting results)                      | #  |   |   |   |                               |                         |                      |  |
| Agency Business Area & Group<br>(What agency business area and group<br>does the measurement and reporting | #  |   |   |   |                               |                         |                      |  |
| Agency Service Area & Group<br>(What agency service area and group<br>does the measurement and reporting   | #  |   |   |   |                               |                         |                      |  |
| Process Area & Group<br>(What process area and group does the<br>measurement and reporting belong to)      | #  |   |   |   |                               |                         |                      |  |
|  |  |   |   | A part of the LEADing Pra                                     | ctice GIS Modelling           | and Architecture Prin   | ciples and Templates |  |

### The Way of Working - Geographical Information System Competency Templates

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# Business Layer: Business Competency Custom & Border Service GIS Way of Modelling Tasks

# **Custom & Border Service GIS Modelling Tasks & Services:**

- Specify Custom & Border Service GIS Stakeholders
- Map Agency Competency Requirements
- Define Custom & Border Service GIS cost model
- Develop value model
- Define business functions
- Prioritize innovation and transformation initiatives
- > Map the different Agencies Business Competencies
- > Develop the Agency Custom & Border Service GIS Business Model
- Define the Custom & Border Service GIS Operating Model
- Map the involved Custom & Border Service GIS Roles
- Identify the Custom & Border Service GIS Owner (O)
- Map the relevant Custom & Border Service GIS Business Objects (Ob)
- > Map the Business Workflow
- Map the relevant Business Rule
- Define the Business Channels and Media used

#### Geographical Information System Way of Modelling: Business Layer Templates: Example of Custom & Border Service GIS Stakeholder Map

| Custom &<br>Border Service |   | Who -                   | in terms of owner           | ship:                                   | Where specification:<br>Custom & Border Service, Agency, Group, Service<br>Area or Team, etc. |                      |                             |  |  |  |
|----------------------------|---|-------------------------|-----------------------------|---|---|----------------------|-----------------------------|--|--|--|
| GIS Stakeholder<br>#       | Custom & Border<br>Service GIS<br>Stakeholder | Stakeholder<br>(Agency) | Stakeholder<br>(Department) | Stakeholder<br>(Operational<br>Manager) | Agency/Service<br>Area  | Competency<br>Groups | Operational<br>Competencies |  |  |  |
| #                          |   |                         |                             |   |   |                      |                             |  |  |  |
| #                          |   |                         |                             |   |   |                      |                             |  |  |  |
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| #                          |   |                         |                             |   |   |                      |                             |  |  |  |

### **Geographical Information System Way of Modelling: Business Layer Templates: Example of Competency Map**



|                           | Wh                           | nat specificatio               | on:                             |                         | Who/Whose s                                | specification:       |                                 |                         |                   |
|---------------------------|------------------------------|--------------------------------|---------------------------------|-------------------------|--|----------------------|---------------------------------|-------------------------|-------------------|
| Agency<br>Competency<br># | Agency<br>Competency<br>Area | Agency<br>Competency<br>Groups | Agency<br>Business<br>Functions | Stakeholder<br>involved | Custom &<br>Border<br>Service GIS<br>Owner | Managers<br>involved | Roles/Resou<br>rces<br>involved | Business<br>Model Level | Business<br>Owner |
| #                         |                              |                                |                                 |                         |  |                      |                                 |                         |                   |
| #                         |                              |                                |                                 |                         |  |                      |                                 |                         |                   |
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### Geographical Information System Way of Modelling: Business Layer Templates: Example of Competency Matrix

|  | Agency<br>Competency | V                            | Vhat specificatior             | ::                    | Who/Whose specification: |   |                      |                             |  |  |  |
|--|----------------------|------------------------------|--------------------------------|-----------------------|--------------------------|---|----------------------|-----------------------------|--|--|--|
|  | #                    | Agency<br>Competency<br>Area | Agency<br>Competency<br>Groups | Business<br>Functions | Stakeholder<br>involved  | Custom &<br>Border Service<br>GIS Owner | Managers<br>involved | Roles/Resources<br>involved |  |  |  |
| Whither specification e.g. Core<br>Differentiated, Core Competitive<br>or Non-Core Agency<br>Competency            | #                    |                              |                                |                       |                          |   |                      |                             |  |  |  |
| Where, in terms of level of<br>information used e.g.<br>Strategic/Tactical/Operational                             | #                    |                              |                                |                       |                          |   |                      |                             |  |  |  |
| How n in terms of manner of<br>Custom & Border Service GIS<br>information delivered<br>e.g. Tiered delivery model  | #                    |                              |                                |                       |                          |   |                      |                             |  |  |  |
| Why in terms of reason and<br>drivers for organizational change  | #                    |                              |                                |                       |                          |   |                      |                             |  |  |  |
| Whither in terms of Custom &<br>Border Service GIS goal<br>specification e.g. SBO, Plans,<br>Forecast, Budgets etc | #                    |                              |                                |                       |                          |   |                      |                             |  |  |  |

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# The Way of Working - Geographical Information System ((C)) EAD Process Templates



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# Business Layer: Business Process Custom & Border Service GIS Way of Modelling Tasks

# Tasks & Services:

- > Map Custom & Border Service GIS process', steps and activities
- Process composition, considering business purpose/goals, business competencies, services, objects, business flows, roles, business rules, compliance, measurements and the IT aspects of applications, data, media, platform and infrastructure
- Model Custom & Border Service GIS process artifacts throughout the different layers e.g. business, application and technology
- Map the Custom & Border Service GIS Business, Information and Data Objects into the process workflow
- Specify the Custom & Border Service GIS Rules within the process models
- Define which processes can be automated with the different Custom & Border Service agencies in the process notations (automated process)
- Define which service can be automated with the different Custom & Border Service agencies in the process notations (automated service)

## **Geographical Information System Way of Modelling: Business Layer Template: Example of Process Matrix**

|  | Custom &                              |                           | Wł               | nat specificat      |                  | Who/Whose specification: |                         |   |                      |                                 |  |
|--|---------------------------------------|---------------------------|------------------|---------------------|------------------|--------------------------|-------------------------|---|----------------------|---------------------------------|--|
|  | Border<br>Service<br>GIS<br>Process # | Agency<br>Process<br>Area | Agency<br>Groups | Business<br>process | Process<br>Steps | Process<br>Activities    | Stakeholder<br>involved | Custom &<br>Border<br>Service GIS<br>Information<br>Owner | Managers<br>involved | Roles/Reso<br>urces<br>involved |  |
| Whither (option)<br>specification e.g. Custom &<br>Border Service GIS Events,<br>gateways and measures<br>(manual/automated) | #                                     |                           |                  |                     |                  |                          |                         |   |                      |                                 |  |
| Where, in terms of level e.g.<br>Strategic/Tactical/<br>Operational  | #                                     |                           |                  |                     |                  |                          |                         |   |                      |                                 |  |
| How in terms of Custom &<br>Border Service GIS manner<br>e.g. management, main or<br>supporting                              | #                                     |                           |                  |                     |                  |                          |                         |   |                      |                                 |  |
| Why in terms of reason of<br>behaviour e.g.<br>Custom & Border Service<br>GIS Rules and compliance<br>aspects                | #                                     |                           |                  |                     |                  |                          |                         |   |                      |                                 |  |
| Whither in terms of Custom<br>& Border Service GIS goal<br>specification e.g. goals,<br>plans, requirements etc              | #                                     |                           |                  |                     |                  |                          |                         |   |                      |                                 |  |

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# **Geographical Information System Way of Modelling: Business Layer Template: Example of Process Matrix**

| GIS Process-Application matrix               |   | <pre>&lt;4pplication Component Name&gt;</pre> | <application module<br="">Name&gt;</application> | <application task<br="">Name&gt;</application> | <application service<br="">Names</application> | <pre>&lt;4pplication Component Name&gt;2</pre> | <a href="https://wodule"></a> | <application task<br="">Name&gt;2</application> | <application service<br="">Name&gt;2</application> |
|--|---|---|--|--|--|--|-------------------------------|---|--|
| <process roles=""></process>                 | # |   |  |  |  |  |                               |   |  |
| <process tasks=""></process>                 | # |   |  |  |  |  |                               |   |  |
| <process business="" object=""></process>    | # |   |  |  |  |  |                               |   |  |
| <process information="" object=""></process> | # |   |  |  |  |  |                               |   |  |
| <process data="" object=""></process>        | # |   |  |  |  |  |                               |   |  |
| <process rules=""></process>                 | # |   |  |  |  |  |                               |   |  |
| <process service=""></process>               | # |   |  |  |  |  |                               |   |  |
| <process measure=""></process>               | # |   |  |  |  |  |                               |   |  |
|  |   |   | A part of  | f the LEADing                                  | Practice GIS                                   | Modelling and                                  | Architecture                  | e Principles a                                  | nd Templates                                       |

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# The Way of Working - Geographical Information System ((C)) EAD Service Templates



<sup>((0))</sup>\_EADing Practice for a Geographical Information System

# Business Layer: Business Service Custom & Border Service GIS Way of Modelling Tasks

## Tasks & Services:

- Map Custom & Border Service GIS services
- Model Custom & Border Service GIS service artifacts throughout the different layers e.g. business, application and technology
- Map the Custom & Border Service GIS Business, Information and Data Objects into the service workflow
- Specify the Custom & Border Service GIS Service Rules
- > Define which agency service can be automated (automated service)
- Map the Business Services to the Custom & Border Service GIS Services
- Link Custom & Border Service GIS Application Service with Data Service, Custom & Border Service GIS Platform Service and Custom & Border Service GIS Infrastructure Services

|   |   |                     | What s   | pecification                  |   | Who/Whose specification: |                  |                     |                            |  |  |  |
|---|---|---------------------|--|-------------------------------|---|--------------------------|------------------|---------------------|----------------------------|--|--|--|
|   | Custom<br>& Border<br>Service<br>GIS<br>Service # | & Border<br>Service | Custom &<br>Border<br>Service<br>GIS<br>Service<br>Group | Agency<br>Business<br>Service | Custom &<br>Border<br>Service GIS<br>Service<br>Channel | Stakeholder<br>Involved  | Service<br>Owner | Manager<br>Involved | Role/Resour<br>ce Involved |  |  |  |
| Whether (option)<br>specification e.g. Custom &<br>Border Service GIS Service<br>nature (simple, generic,<br>complex) | #   |                     |  |                               |   |                          |                  |                     |                            |  |  |  |
| Where - Agency level e.g.<br>Strategic/Tactical/Operationa<br>I   | #   |                     |  |                               |   |                          |                  |                     |                            |  |  |  |
| How is the manner of the service: e.g. management, main or supporting   | #   |                     |  |                               |   |                          |                  |                     |                            |  |  |  |
| Why in terms of reason of<br>service behaviour e.g.<br>Agency<br>Rules and compliance<br>aspects                      | #   |                     |  |                               |   |                          |                  |                     |                            |  |  |  |
| Whither in terms of Custom<br>& Border Service GIS goal<br>specification e.g. goals,<br>plans, requirements etc       | #   |                     |  |                               |   |                          |                  |                     |                            |  |  |  |
| Which Service<br>measurements, reporting,<br>channels are involved  | #   |                     |  |                               |   |                          |                  |                     |                            |  |  |  |

#### Geographical Information System Way of Modelling: Cross Layers Template: Example of Custom & Border Service GIS Automated Service Matrix

| GIS Automated Service Matrix  | GIS Automation specification:  |                |                    |                          |  |  |  |
|---|--|----------------|--------------------|--------------------------|--|--|--|
| GIS Automated Service Matrix  | Application Service #  | Data Service # | Platform Service # | Infrastructure Service # |  |  |  |
| Business Competencies<br>(which automated GIS service enables the business competencies)  |  |                |                    |                          |  |  |  |
| Business Functions<br>(which automated GIS service enables the business Function)         |  |                |                    |                          |  |  |  |
| Business Service<br>(which automated GIS service enables the business service)            |  |                |                    |                          |  |  |  |
| Service Flow<br>(which automated GIS service enables the service flow -input/output)      |  |                |                    |                          |  |  |  |
| Service Measurements<br>(which Service Level Agreements a apart of the GIS service model) |  |                |                    |                          |  |  |  |
|   | A part of the LEADing Practice GIS Modelling and Architecture Principles and Templates |                |                    |                          |  |  |  |

### Architecture Custom & Border Service GIS Modelling: Geographical Information System Application Templates

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# Application Layer: Application Custom & Border Service GIS Way of Modelling Tasks

## **Tasks & Services**

- Collect Custom & Border Service GIS application goals
- Capture Custom & Border Service GIS application requirements
- Analyze Custom & Border Service GIS application functions
- Decompose Custom & Border Service GIS Information input/output model to Custom & Border Service agency business competencies and their functions
- Define Custom & Border Service GIS screen flows, interface map and application landscape and service flows
- Map application tasks to Custom & Border Service agency tasks
- Compose application map, application information/data matrix and application service model
- Decompose and compose Custom & Border Service GIS application objects (business objects, information and data objects needed)
- Align application service flows to Custom & Border Service agency business service flow

## Geographical Information System Way of Modelling: Application Layer Template: Example: Application Map

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| Custom & Border<br>Service GIS<br>Component # | Whence<br>specification: | What/Which specification:                                       |                       |                         |                        |                  |  |  |  |
|---|--------------------------|---|-----------------------|-------------------------|------------------------|------------------|--|--|--|
|   | Version number           | Logical/Physical<br>Custom & Border<br>Service GIS<br>Component | Application<br>Module | Application<br>Function | Application<br>Feature | Application Task |  |  |  |
|   |                          |   |                       |                         |                        |                  |  |  |  |
|   |                          |   |                       |                         |                        |                  |  |  |  |
|   |                          |   |                       |                         |                        |                  |  |  |  |
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|   |                          |   |                       |                         |                        |                  |  |  |  |
|   |                          |   |                       |                         |                        |                  |  |  |  |

| CIE Application Matrix   | GIS specification:   |                           |                           |                           |  |  |  |
|--|--|---------------------------|---------------------------|---------------------------|--|--|--|
| GIS Application Matrix   | GIS Application Service #  | GIS Application Service # | GIS Application Service # | GIS Application Service # |  |  |  |
| Application Task<br>(which application task enables the application service)           |  |                           |                           |                           |  |  |  |
| Application Interface<br>(where is the service a part of an application interface)     |  |                           |                           |                           |  |  |  |
| Application Screen<br>(when and where is the service a part of the application screen) |  |                           |                           |                           |  |  |  |
| Data Service<br>(which data service is collaborating with the application service)     |  |                           |                           |                           |  |  |  |
| Platform<br>(on what platform does the service reside)                                 |  |                           |                           |                           |  |  |  |
| Platform Service<br>(which platform service is collaborating with the service)         |  |                           |                           |                           |  |  |  |
|  | A part of the LEADing Practice GIS Modelling and Architecture Principles and Templates |                           |                           |                           |  |  |  |

# Application Layer Templates: Custom & Border Service GIS Application Architecture Artifacts

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|----|---------------|-------------|--|--|--------------------------|--|
|    |               |             | Application Goal -                                     | Requirements Map   |                          |  |
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A part of the LEADing Practice Custom & Border Service GIS Modelling and Architecture Principles and Templates

# The Way of Working - Geographical Information System Data Templates

# ((O))\_EAD



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# Application Layer: Data Custom & Border Service GIS Way of Modelling Tasks

# **Tasks & Services**

- Collect data goals and requirements
- Map relevant Custom & Border Service GIS Data Object (Information & Data)
- Specify data entities and services into the Custom & Border Service GIS Data Maps
- Classify data types into meta data and master data
- Identify and define data components (logical & physical)
- Map data flow (input/output)
- Compose data map and data service matrix and model
- Define Custom & Border Service GIS data distribution scenarios linked to the different Custom & Border Service agencies
- Define level of Custom & Border Service GIS data service standardization and integration
- Define data interface map
- Align data service flows to information service flows
- Identify application to application communication and data dissemination
- Define Custom & Border Service GIS Data Rules

www.Leafinghatesteen Custom & Border Service GIS Data Compliance (incl. Security)

## Geographical Information System Way of Modelling: Application Layer Template: Example: Data Map



|  | What/which specification: |                                   |             | Who is involved:  |  | Where is it used: |                   |                      |  |
|--|---------------------------|-----------------------------------|-------------|-------------------|--|-------------------|-------------------|----------------------|--|
| Custo<br>m &<br>Border<br>Service<br>GIS<br>Data # | Data Component            | Data Object<br>(information/data) | Data Entity | Data Type         | Custom & Border<br>Service GIS Data<br>Service | Data Owner        | Data Users        | Data Channel         | Custom & Border<br>Service Agency<br>Channel |
|  |                           |                                   |             |                   |  |                   |                   |                      |  |
|  |                           |                                   |             |                   |  |                   |                   |                      |  |
|  |                           |                                   |             |                   |  |                   |                   |                      |  |
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|  |                           |                                   |             |                   |  |                   |                   |                      |  |
|  |                           |                                   | A part c    | f the LEADing Pra | actice Custom & B                              | order Service GIS | Modelling and Are | chitecture Principle | es and Templates                             |
#### Geographical Information System Way of Modelling: Application Layer Template: Example: Data Matrix

### ((C))\_EAD

|   | Cust<br>om &                                  |   | What/which s                          | pecification:   |   | Who is i         | nvolved:                                       | Where is                                     | it used:                                   |
|---|---|---|---------------------------------------|-----------------|---|------------------|--|--|--|
| Custom & Border<br>Service GIS Data Matrix  | Bord<br>er<br>Servi<br>ce<br>GIS<br>Data<br># | Custom &<br>Border<br>Service GIS<br>Physical<br>Application<br>Component | Data Object<br>(information/d<br>ata) | Data Entity     | Custom &<br>Border<br>Service GIS<br>Data Service | Data Owner       | Custom &<br>Border<br>Service GIS<br>Data User | Custom &<br>Border<br>Service GIS<br>Channel | Custom &<br>Border<br>Service GIS<br>Media |
| Agency Business Service<br>(which Agency business<br>service does the data service<br>collaborate with) |   |   |                                       |                 |   |                  |  |  |  |
| Application Service<br>(which application service<br>does the data service<br>collaborate with)         |   |   |                                       |                 |   |                  |  |  |  |
| Application Task<br>(which application task uses<br>the data)   |   |   |                                       |                 |   |                  |  |  |  |
| Data Requirement<br>(what Agency business<br>requirement does the data<br>have to meet)                 |   |   |                                       |                 |   |                  |  |  |  |
| Data Goal<br>(to what end or purpose is the<br>data required)   |   |   |                                       |                 |   |                  |  |  |  |
| Data Rule<br>(what rule governs the data)   |   |   | A part of the L                       | EADing Practice | Custom & Borde                                    | r Service GIS Mo | delling and Archi                              | tecture Principles                           | and Templates                              |
| Data Compliance<br>(in what way does the data<br>have to comply)  |   |   |                                       |                 |   |                  |  |  |  |

### Application Layer Templates: Custom & Border Service GIS Data Architecture Artifacts

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| 6  | -           | Dent  | ical - Requirements Map   |                    |                            |                  |
|----|-------------|---|---|--------------------|----------------------------|------------------|
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|    |             | Control agong reporting for<br>Organization models  | Interface houringtion: assume there is a<br>central agency reporting for Dispatiation<br>matchs and work descriptions that is used<br>as an input. This reporting may not<br>actually exit. | -                  | Turber Management          |                  |
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|   |                         |         |          | GIS             | Data M   | ар               |                                      |
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#### **GIS Data Application Matrix**



#### GIS Data Model



# GIS Data Service Matrix

A part of the LEADing Practice Custom & Border Service GIS Modelling and Architecture Principles and Templates

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#### The Way of Working - Geographical Information System Platform Templates

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# Technology Layer: Platform ((C)) EAD Custom & Border Service GIS Way of Modelling Tasks ((C)) EAD

#### Custom & Border Service GIS Platform Tasks & Services

- > Define Custom & Border Service GIS platform goals and requirements
- Map platform functions
- Decompose platform functions and capabilities to compose platform services
- Determine platform components to deploy platform services, application components and data components
- Identify platform services, components, software distribution, software virtualization, high availability requirements
- Map platform services to application and data services
- Compose platform map and platform application matrix
- > Define level of platform service standardization and integration
- Compose platform model, landscape and distribution model
- Map Custom & Border Service GIS Platform Rules
- Define the Custom & Border Service GIS Platform Distribution Model

#### Geographical Information System Way of Modelling: Technology Layer Template: Example: Platform Map

### ((C))\_EAD

|  |                               | What/\                                   | Which                |   | Who is i         | nvolved:          | Wh   | ere  |
|--|-------------------------------|--|----------------------|---|------------------|-------------------|--|--|
| Custom<br>&<br>Border<br>Service<br>GIS<br>Platform<br># | Logical/Physical<br>Component | Custom &<br>Border Service<br>GIS Device | Platform<br>Function | Custom &<br>Border Service<br>GIS Platform<br>Service | Owner            | Users             | Custom &<br>Border<br>Service GIS<br>Platform<br>Channel | Custom &<br>Border<br>Service GIS<br>Platform<br>Media |
|  |                               |  |                      |   |                  |                   |  |  |
|  |                               |  |                      |   |                  |                   |  |  |
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|  |                               |  |                      |   |                  |                   |  |  |
|  |                               |  | A part of the LEAI   | Ding Practice Custom &                                | Border Service G | S Modelling and A | rchitecture Principle                                    | es and Templates                                       |
|  |                               |  |                      |   |                  |                   |  |  |
|  |                               |  |                      |   |                  |                   |  |  |

#### Geographical Information System Way of Modelling: Technology Layer Template: Example: Platform Matrix

| Custom & Border Service                                       | Custom &<br>Border |                                | What spec                                | cification:          |                     | Who is i       | nvolved:          | Where spe   | cification:   |
|---|--------------------|--------------------------------|--|----------------------|---------------------|----------------|-------------------|---|---|
| GIS Platform<br>Matrix  | Service<br>GIS     | Logical/Physic<br>al Component | Custom &<br>Border Service<br>GIS Device | Platform<br>Function | Platform<br>Service | Owner          | Users             | Custom &<br>Border Service<br>GIS Platform<br>Channel | Custom &<br>Border Service<br>GIS Platform<br>Media |
| Custom & Border Service GIS                                   |                    |                                |  |                      |                     |                |                   |   |   |
| Platform Requirement  |                    |                                |  |                      |                     |                |                   |   |   |
| (what Custom & Border Service                                 |                    |                                |  |                      |                     |                |                   |   |   |
| Agency requirement does the                                   |                    |                                |  |                      |                     |                |                   |   |   |
| platform have to meet)  |                    |                                |  |                      |                     |                |                   |   |   |
| Custom & Border Service GIS                                   |                    |                                |  |                      |                     |                |                   |   |   |
| Platform Goal   |                    |                                |  |                      |                     |                |                   |   |   |
| (to what end or purpose is the                                |                    |                                |  |                      |                     |                |                   |   |   |
| Custom & Border Service GIS                                   |                    |                                |  |                      |                     |                |                   |   |   |
| platform required)  |                    |                                |  |                      |                     |                |                   |   |   |
| Custom & Border Service GIS                                   |                    |                                |  |                      |                     |                |                   |   |   |
| Platform Rule   |                    |                                |  |                      |                     |                |                   |   |   |
| (what rule governs the platform)                              |                    |                                |  |                      |                     |                |                   |   |   |
| Platform Compliance   |                    |                                |  |                      |                     |                |                   |   |   |
| (in what way does the platform                                |                    |                                |  |                      |                     |                |                   |   |   |
| have to comply to agency policy)                              |                    |                                |  |                      |                     |                |                   |   |   |
| Custom & Border Service GIS                                   |                    |                                |  |                      |                     |                |                   |   |   |
| Platform Requirement  |                    |                                |  |                      |                     |                |                   |   |   |
| (what Custom & Border Service                                 |                    |                                |  |                      |                     |                |                   |   |   |
| Agency requirement does the                                   |                    |                                |  |                      |                     |                |                   |   |   |
| platform have to meet)  |                    |                                |  |                      |                     |                |                   |   |   |
| Custom & Border Service GIS                                   |                    |                                |  |                      |                     |                |                   |   |   |
| Platform Goal   |                    |                                |  |                      |                     |                |                   |   |   |
| (to what end or purpose is the<br>Custom & Border Service GIS |                    |                                |  |                      |                     |                |                   |   |   |
|   |                    |                                | part of the LEA                          | Ding Practice Cu     | stom & Border S     | ervice GIS Mod | lling and Archite | cture Principles                                      | and Templates                                       |
| platform required)<br>Custom & Border Service GIS             |                    | P                              |  |                      |                     |                |                   |   |   |
|   |                    |                                |  |                      |                     |                |                   |   |   |
| Platform Rule   |                    |                                |  |                      |                     |                |                   |   |   |
| (what rule governs the platform) Platform Compliance          |                    |                                |  |                      |                     |                |                   |   |   |
| (in what way does the platform                                |                    |                                |  |                      |                     |                |                   |   |   |
|   |                    |                                |  |                      |                     |                |                   |   |   |
| have to comply to agency policy)                              |                    |                                |  |                      |                     |                |                   |   |   |

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### Technology Layer Templates: Custom & Border Service GIS Platform Architecture Artifacts

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# Technology Layer: Infrastructure (()) EAD Custom & Border Service GIS Way of Modelling Tasks (())

#### **Tasks & Services**

- Collect infrastructure goals and requirements
- Analyze infrastructure functions
- Decompose infrastructure functions and capabilities to compose infrastructure services
- Identify infrastructure services, hardware distribution and hardware virtualization
- Map infrastructure services to platform services
- Compose infrastructure map, matrix, model and landscape
- > Define level of infrastructure service standardization and integration
- Define high availability scenarios
- Determine infrastructure services to support platform services
- > Determine infrastructure components to deploy platform components

### **Technology Layer: Infrastructure** Infrastructure Map

### ((O))\_EAD

|                     |                               | What/Wh | ich specificatio | on:     |         | Who is i | nvolved: | Where is it<br>used: |
|---------------------|-------------------------------|---------|------------------|---------|---------|----------|----------|----------------------|
| Infrastructure<br># | Logical/Physical<br>Component | Device  | Function         | Feature | Service | Owner    | Users    | Channel              |
|                     |                               |         |                  |         |         |          |          |                      |
|                     |                               |         |                  |         |         |          |          |                      |
|                     |                               |         |                  |         |         |          |          |                      |
|                     |                               |         |                  |         |         |          |          |                      |
|                     |                               |         |                  |         |         |          |          |                      |
|                     |                               |         |                  |         |         |          |          |                      |
|                     |                               |         |                  |         |         |          |          |                      |
|                     |                               |         |                  |         |         |          |          |                      |
|                     |                               |         |                  |         |         |          |          |                      |
|                     |                               |         |                  |         |         |          |          |                      |
|                     |                               |         |                  |         |         |          |          |                      |
|                     |                               |         |                  |         |         |          |          |                      |
|                     |                               |         |                  |         |         |          |          |                      |

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### **Technology Layer: Infrastructure** Infrastructure Matrix

### 

|   | Custom &                                     |                                   | What spe  | ecification:   |   | Who is i       | nvolved:        | Where sp   | ecification:   |
|---|--|-----------------------------------|---|--|---|----------------|-----------------|--|--|
| Custom & Border Service<br>GIS Infrastructure<br>Matrix | Border<br>Service GIS<br>Infrastructure<br># | Logical/<br>Physical<br>Component | Custom &<br>Border<br>Service<br>GIS<br>Infrastr.<br>Device | Custom &<br>Border<br>Service GIS<br>Infrastr.<br>Function | Custom &<br>Border<br>Service GIS<br>Infrastr.<br>Service | Owner          | Users           | Custom &<br>Border<br>Service GIS<br>Infrastr<br>Channel | Custom &<br>Border<br>Service GIS<br>Infrastr<br>Media |
| Custom & Border Service GIS                             |  |                                   |   |  |   |                |                 |  |  |
| Infrastructure Requirement                              |  |                                   |   |  |   |                |                 |  |  |
| (what Agency requirement does                           |  |                                   |   |  |   |                |                 |  |  |
| the infrastructure have to meet)                        |  |                                   |   |  |   |                |                 |  |  |
| Custom & Border Service GIS<br>Infrastructure Goal      |  |                                   |   |  |   |                |                 |  |  |
| (to what end or purpose is the                          |  |                                   |   |  |   |                |                 |  |  |
| infrastructure required)                                |  |                                   |   |  |   |                |                 |  |  |
| Custom & Border Service GIS                             |  |                                   |   |  |   |                |                 |  |  |
| Infrastructure Rule                                     |  |                                   |   |  |   |                |                 |  |  |
| (what rule governs the                                  |  |                                   |   |  |   |                |                 |  |  |
| infrastructure)   |  |                                   |   |  |   |                |                 |  |  |
| Infrastructure Compliance                               |  |                                   |   |  |   |                |                 |  |  |
| (in what way does the                                   |  |                                   |   |  |   |                |                 |  |  |
| infrastructure have to comply)                          |  |                                   |   |  |   |                |                 |  |  |
| Custom & Border Service GIS                             |  |                                   |   |  |   |                |                 |  |  |
| Infrastructure Requirement                              |  |                                   |   |  |   |                |                 |  |  |
| (what Agency requirement does                           |  |                                   |   |  |   |                |                 |  |  |
| the infrastructure have to meet)                        |  |                                   |   |  |   |                |                 |  |  |
| Custom & Border Service GIS                             |  |                                   |   |  |   |                |                 |  |  |
| Infrastructure Goal                                     |  |                                   |   |  |   |                |                 |  |  |
| (to what end or purpose is the                          |  | A part of                         | he LEADing F  | Practice Custom  | & Border Serv   | ce GIS Modelli | ng and Archited | ture Principles  | and Templates  |
| infrastructure required)                                |  |                                   |   |  |   |                |                 |  |  |
| Custom & Border Service GIS                             |  |                                   |   |  |   |                |                 |  |  |
| Infrastructure Rule                                     |  |                                   |   |  |   |                |                 |  |  |
| (what rule governs the                                  |  |                                   |   |  |   |                |                 |  |  |
| infrastructure)   |  |                                   |   |  |   |                |                 |  |  |
| <sup>M</sup> Infrastructure Compliance                  |  |                                   |   |  |   |                |                 |  |  |

### Technology Layer Templates: Custom & Border Service GIS Infrastructure Architecture Artifacts

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A part of the LEADing Practice Custom & Border Service GIS Modelling and Architecture Principles and Templates

#### The LEADing Practice Geographical Information System Structural Way of Implementation





Structural Way of ((O))\_EADing Practice

### The LEADing Practice Geographical Information System structural Way of Implementation

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((O))\_EADing Practice for a Geographical Information System

#### The LEADing Practice Geographical Information System structural Way of Implementation

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- The LEADing Practice Geographical Information System Structural Way of Implementation combines the Enterprise Modelling and Enterprise Architecture principles in an order to apply the way of working and modelling into the physical and thereby the execution and concrete relevant aspects.
- Most implementations fall short of transforming the business and creating real value due to the fact that they automate the existing way of working. Thereby actually reinforcing a siloed and ineffective way of automation. Hence, the Custom & Border Service GIS implementation approach is not only about identifying and minimizing duplication of Custom & Border Service agency business functions, roles in terms of employees, process's, services and many other cost cutting potential. It is in addition about the possibility to totally rethink the information workflow, the service flow, the process flow as well as the measurement and reporting flow. It can fundamentally rethink and transform the different Custom & Border Service agencies.
- The LEADing Practice Way of Custom & Border Service GIS Implementation has been developed as a fully integrated part of the Custom & Border Service GIS concept and details a series of steps to be taken in order to produce a fully integrated concept.
- The LEADing Practice Custom & Border Service GIS Structural Way of Implementation provides a uniform and formal implementation description of the specific LEAD Custom & Border Service GIS meta objects and artifacts by using decomposition and composition modelling techniques within the implementation

#### The LEADing Practice Geographical Information System structural Way of Implementation

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#### The LEADing Practice Geographical Information System structural Way of Implementation



- The LEADing Practice Geographical Information System structural Way of Implementation is not only about identifying how to use the Custom & Border Service GIS information and data, but also to rethink the usage and re-use of information and data, minimizing the way of working across Custom & Border Service agencies.
- The LEADing Practice Custom & Border Service GIS implementation approach has been developed as a fully integrated part of how to produce a wanted Custom & Border Service GIS result.
- The LEADing Practice Custom & Border Service GIS implementation approaches structure the various practitioner's way of modelling in the specific areas with a supporting scope, concept, roadmap and templates. The Custom & Border Service GIS implementation approach is designed so that a Custom & Border Service can do a full Custom & Border Service GIS blueprint and implementation approach. Also preparing for the Custom & Border Service GIS Custom & Border Service and continuous improvement phase.

#### The LEADing Practice Geographical Information System Structural Way of Governance



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### The LEADing Practice Geographical Information System structural Way of Governance

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The LEADing Practice Custom & Border Service GIS Governance and Continuous Improvement approach is an essential part of administrating, governing what exists or in the process of getting developed/deployed as well as building in an improvement concept.

The Custom & Border Service GIS Governance and Continuous Improvement approach relates to the Custom & Border Service GIS decisions and guidance that define expectations and direction, grant power, or verify and ensure value identification and creation. It consists both of a project governance as well as a ongoing Custom & Border Service GIS governance.

A part of the Custom & Border Service GIS governance concept, consists of the set of Custom & Border Service GIS regulatory requirements, Custom & Border Service GIS standards, Custom & Border Service Agency authority structure, Custom & Border Service GIS solutions, Custom & Border Service Agency organizational standards, Custom & Border Service GIS information rules and guidelines as well as Custom & Border Service GIS service level agreements/operating level agreements, affecting the way the Custom & Border Service Agency control information.

The Way of Custom & Border Service GIS Governance also includes the relationships among the many Custom & Border Service Agencies players involved (the stakeholders) and their specific business goals and how the changes of the Custom & Border Service GIS solution is improved/optimized during the LifeCycle.

### The LEADing Practice Geographical Information System structural Way of Governance

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A part of the ((0)LEADing Practice for a Geographical Information System

#### LEADing Practice Custom & Border Service GIS Governance & Continuous Improvement Lifecycle

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The LEADing Practice Lifecycle Method is the course of developmental changes through which the lifecycle evolves in terms of innovation and/or transformation as it passes during its lifetime. The lifecycle phases covers the entire lifetime of the subject from analysis, strategy, requirements, component and task design and features, service definition, operations, improvements, optimization and changes.

The lifecycle consists of a set of steps/phases in which each phase uses the results of the previous one. It provides a sequence of phases and activities for subject matter experts and architects alike to identify, create, develop, launch, maintain and continuously optimize value for the enterprise in many different areas.

The LEADing Practice Lifecycle Method concept interlinks and can be integrated with other lifecycles and methodologies; they do, however, focus on all aspects from requirements to architecture:

#### LEADing Practice Custom & Border Service GIS Governance & Continuous Improvement Lifecycle

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- Analysis: The phase where ones strategy is defined based on requirements (e.g. business needs and wants) as well as demands. Then goals and detailed requirements are defined and choices are clarified, and through blueprinting the maps, matrices and models are developed.
- 2. **Design:** The phase where one initiates, aligns, arranges, categorizes, charts, defines, determines, quantifies, drafts, outlines and designs the concept. The design phase considers the identified requirements and the specific design considerations for components, functions, modules, features, tasks and services.
- 3. Build: The phase where one creates, sets up, builds, integrates, standardizes, harmonizes, consolidates as well as test the product or solution.
- 4. **Deploy/Implement:** The phase where one launches, implements, executes, deploys, activates, completes, concludes and transitions the product or solution to execution (go live).
- 5. **Run/Maintain:** The phase where the product or solution is managed in terms of their components, services, incidents/issues and change request fulfillments, etc.
- 6. Continuous Improvement: The phase where one improves upon the existing features of the product or solution and evaluates, adjusts, alters, amends, changes, corrects, eliminates, enhances, increases, modifies, optimizes and/or excludes specific parts.

#### LEADing Practice Custom & Border Service GIS Governance & Continuous Improvement Lifecycle

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### The LEADing Practice Geographical Information System Structural Way of Training



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### The LEADing Practice Geographical Information System Structural Way of Training

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- The LEADing Practice Geographical Information System career path is one of the few in the world offering a full career path for the various Custom & Border Service GIS experts and architect needed for business and IT modelling in a full Custom & Border Service GIS project. The Custom & Border Service GIS career path curriculum is built on international education standards and requirements from business and IT organizations education programs, such as ISO 9000/9001 and those needed specific for Custom & Border Service GIS implementation and governance.
- The Custom & Border Service GIS career path meets today's market and organizations need for cross-disciplinary competencies with an emphasis on value, process, services, enterprise architecture, information, technology and transformation. Ensuring that cross capability and skills with both business and IT modelling principles are meet to ensure success in the Custom & Border Service GIS modelling, implementation and governance. The Custom & Border Service GIS career path is about more than skill sets and certifications – it's also about a Custom & Border Service GIS project implementation.
- The Custom & Border Service GIS career path offers the opportunity to become certified as eXperts, Architects and LEAD Architects and the training is used to blueprint and implement the Custom & Border Service GIS project. This helps the organization implementing Custom & Border Service GIS, both to train/up skill their people as well as to work on the Custom & Border Service GIS project.

#### The LEADing Practice Custom & Border Service GIS **Career Path (training)**

### 

PROCESS 1

PROCESS 2

SERVICE 1

SERVICE 2

EA 1

EA 2

#### ((0) EADING PRACTICE GEOGRAPHICAL INFORMATION SYSTEM CAREER PATH







O = Application Layer Focus

### The LEADing Practice Geographical Information System Structural Way of Training

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The Custom & Border Service GIS certification path is not like many curriculums 'one size fits all' or 'one solution fits everything', it is based on the ability to choose ones specific area of expertise and thereby develop ones Custom & Border Service GIS modelling specialization competencies. This is one of the strengths of the tailored Custom & Border Service GIS certification path, participants will be in the their specific area and knowledge they need of either Custom & Border Service GIS strategy/value capturing, process mapping, service modelling, enterprise architecture and transformation considerations. All combined into specific areas of skills development as:

- Custom & Border Service GIS Business Architect; to define the Custom & Border Service GIS Custom & Border Service Agency concept
- Custom & Border Service GIS Value Architect; to link the Custom & Border Service Agency strategy, objectives and goals as well as identify the Custom & Border Service GIS value concept
- Custom & Border Service GIS Process Architect; to identify, design the Custom & Border Service Agency processes and define the Custom & Border Service GIS standard as well as operating model
- Information Architect; to identify the information objects, information flow, define the information and data standard. Develop a common data and information model
- Service Architect; to identify the Custom & Border Service Agency service flow, service rules, define the information service, data service as well as platform and infrastructure service standard. Develop a common Custom & Border Service GIS service model
- Technology Architect; to identify the relevant platform and infrastructure components, devises as well as platform and infrastructure integration aspects.

Transformation Architect; map the needed change, optimization and transformation aspects
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### **Questions?**

Henrik von Scheel LEAD Transformation Architect

Mobile: +45 6072 8401 E-Mail: <u>HvS@LEADingPractice.com</u> Professor Mark von Rosing LEAD Enterprise Architect

Mobile: +45 2888 8901 E-Mail: <u>MvR@LEADingPractice.com</u>

#### For more information:

For more information or questions about business architecture, business models, strategy maps, value map examples, and business architecture templates, please visit <u>www.LEADingPractice.com</u>

#### Geographical Information System Project Concept

## 

- To lead a coordinated, multi-agency effort to create a digital repository of geographic data in order to improve Custom & Border Service efficiency by facilitating data access and by eliminating the development of duplicate databases.
- To provide leadership, co-operation and co-ordination of Geospatial data, services, applications, and activities among Custom & Border Service agency geospatial stakeholders and users in building the national Custom & Border Service GIS infrastructure and database.
- To provide adequate infrastructure and coordination and development of an enterprise Custom & Border Service GIS which is impacted owing to lack of resources and professional development.
- The rapid increase of the potential users over the recent years is continuously overloading the communications/linkages with other Custom & Border Service agencies about their needs and initiatives. Multiple versions of data sets are stored at various agencies and opportunities for co-operation have been neglected.
- The new approach to National Custom & Border Service GIS should take into consideration a better coordination of the Geospatial activities of Custom & Border Service agencies in a more collaborative and managed environment, including continuous professional development.

#### **Critical areas to consider**

- Data standards and data issues
- Legal and policy frameworks, including critical issues related to authoritative data

- Promoting data sharing, accessibility and distribution
- National strategic framework for geospatial information management
- Assuring quality of information
- Promoting advocacy and awareness
- Partnership with private sectors
- Linking geospatial information to statistics
- Data provisioning
- Geodetic reference framework
- National Custom & Border Service GIS for sustainable economic development
- Training mechanism