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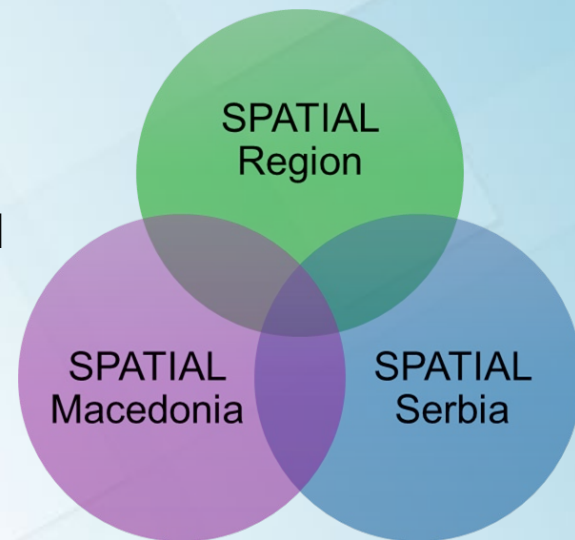
SPATIAL Macedonia: Act. 1.4 Institutional Development

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SPATIAL Western Balkan

- Objective:
 - Strengthen public institutions in the Western Balkan region with the aim to provide society with reliable information about land for social and economic wellbeing
- Funded by MATRA funds from Min. Foreign Affairs in the Netherlands
- Budget of around € 500,000
- From March 2017 – March 2019



Activities SPATIAL Macedonia

Activity 1.1:

- **Inception mission** to deliver a detailed work plan for result 1.

Activity 1.2:

- 'Capacity building **NSDI Stakeholders**'. Mobilise stakeholders by increasing of knowledge for the production and delivery of metadata and services for the Macedonian geoportal.

Activity 1.3:

- Technical Assistance for establishment and implementation of the **Address Registry** for Macedonia.

Activity 1.4:

- Strengthening **institutional and organisational capacity** by exchanging experiences and to develop capacity.

SPATIAL Macedonia

Purpose: Strengthen Professional Access To Information About Land (SPATIAL) in Macedonia

Consists of 3 activities, each with specific outcomes:

- 1. Inception mission**
- 2. National Spatial Data Infrastructure** - 'Capacity building NSDI Stakeholders'. Mobilise stakeholders by increasing of knowledge for the production and delivery of services and metadata for the Macedonian geoportal
- 3. Address Register** – Technical Assistance for establishment and implementation of the Address Register for Macedonia
- 4. Institutional Development** - Strengthening institutional and organisational capacity by exchanging experiences and to develop capacity (focus on updating the production process of Topographic map, 1:25,000)

Component 1.4

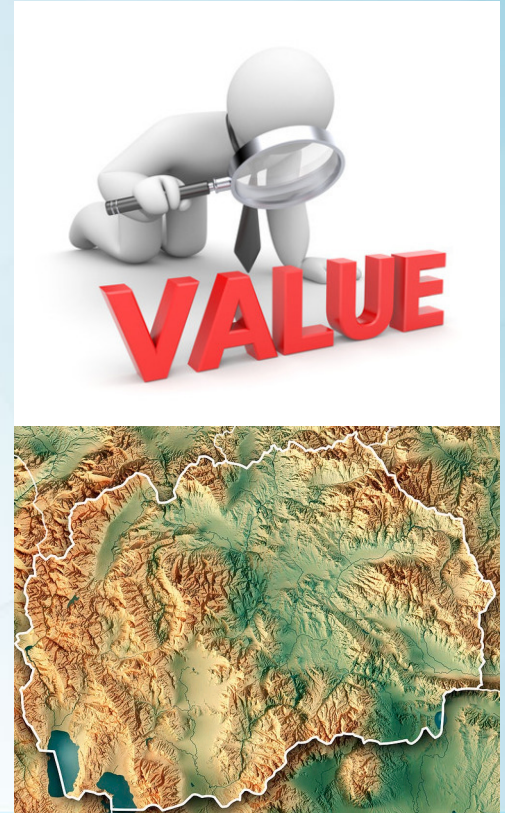
Activity 1.4:

- Strengthening **institutional and organisational capacity** by exchanging experiences and to develop capacity.

- Regionalisation
- Mass Valuation
- Cartography
- Service oriented institution: Marketing & Promotion
- Open Data

Focus in this component....

- Instead of multiple topics (service orientation, open data..), more focus on only few topics
- Decision to concentrate on **Mass Valuation** and specifically **Cartography**



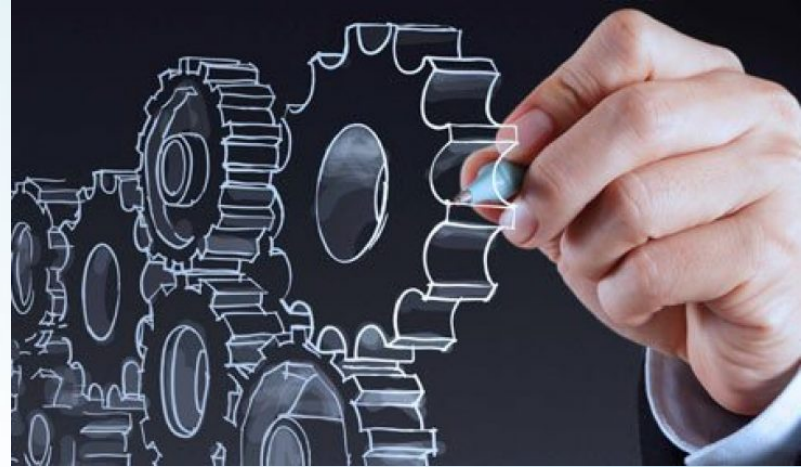
Mass valuation

- Team of AREC visited RGA Serbia
- Focus on mass valuation
- Presenting situation and production workflow in Macedonia
- Looking into each other's kitchen...



Cartography

- Technical assistance related to updating workflow of topographic map scale 1:25k
- Technical assistance related to automatisisation in process of generalisation



Workflow 1:25,000 topographic map

Update workflow of current 25k topographic map, introducing principles from LEAN approach:

- Only production steps that add value for customer
- No waiting times
- 'first time right'
- Less (quality) checks
- Transparency in steps

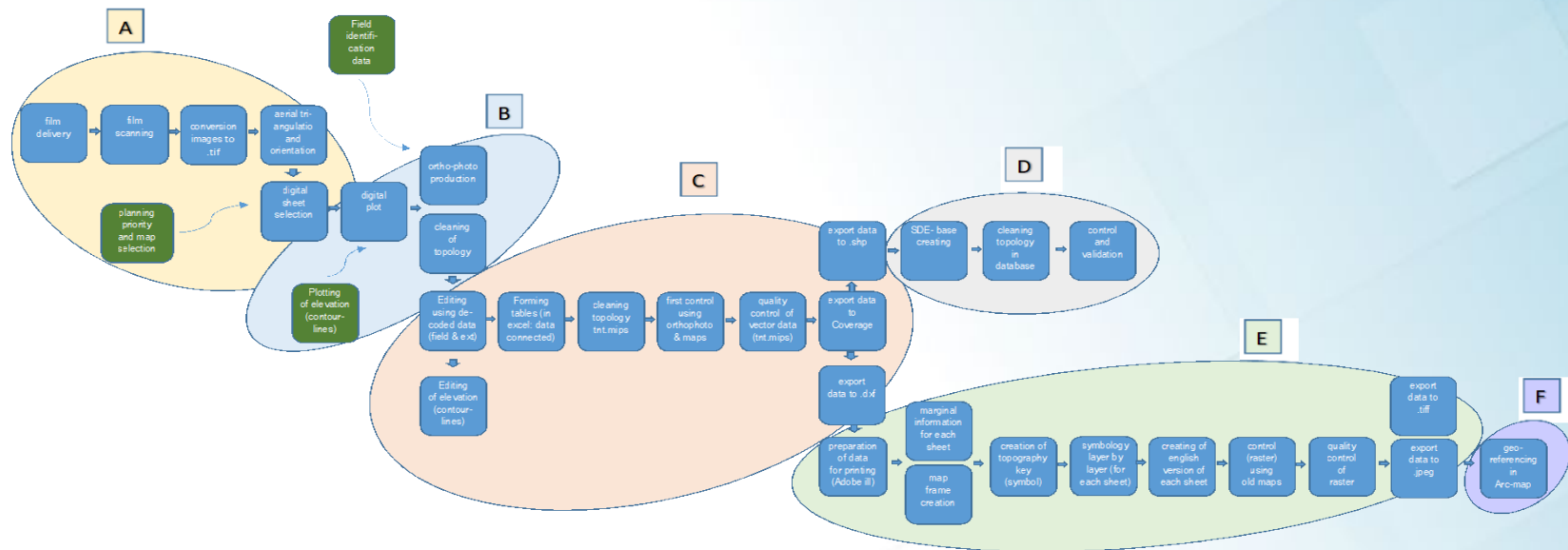
TAKING A LEAN APPROACH

- ✓ Reduce cycle time
- ✓ Eliminate waste
- ✓ Infuse Transparency

Production process 1:25,000 - current

AREC Macedonia

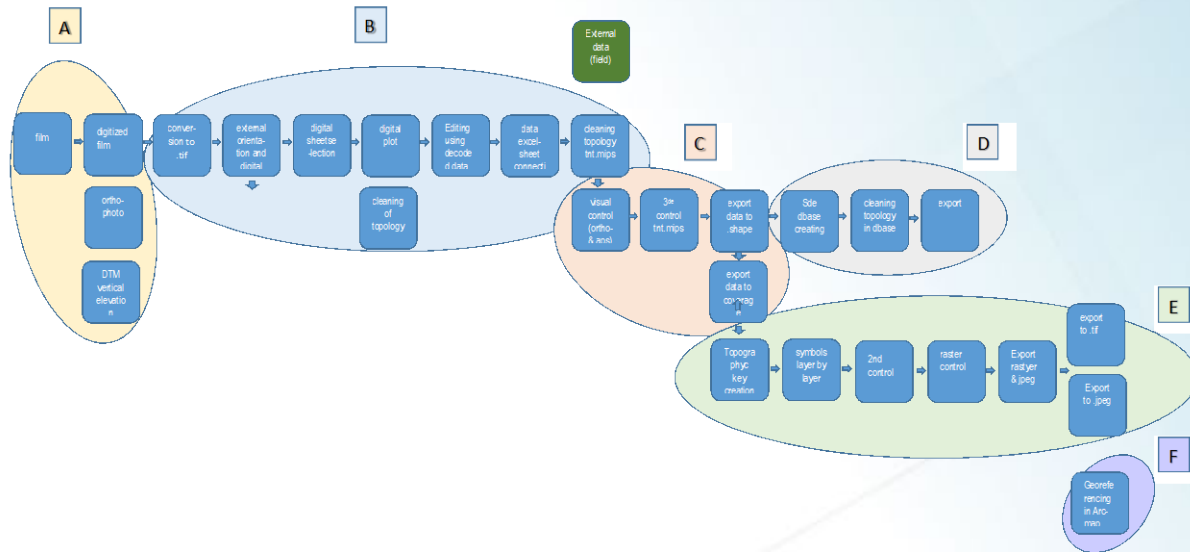
Current State Process of actualization Topographic Map 1: 25:000



Production process 1:25,000 - updated

AREC Macedonia

CONCEPT Future State Process of actualization Topographic Map 1: 25:000



Efficiency in workflow steps

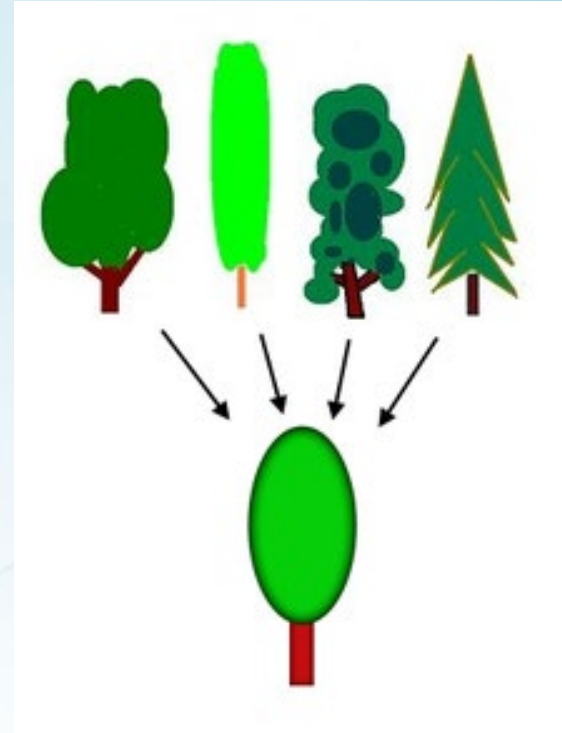
- Hands-on sessions
- Steps in producing paper map
- Triggering of changed features
- Keep in mind the scale... 1:25,000, is it a real change?
- Not too much detail
- Are all objects in feature catalogue needed?
- **Continuous process, all employees involved**



Technical assistance related to automatic generalization process

Generalisation of 1:25,000 to 1:50,000 map

- Reduction of number of features
- Simplification of features
- Selection of features
-
- Practical suggestions to automate specific steps, e.g. buildings, roads, etc.
- Hands-on sessions



Study visit to the Netherlands

- Study visit of 3 days, from 18 – 20 March 2019
- Last topic of SPATIAL Macedonia!
- 9 persons Cartography department
- Topics:
 - Production process 1:10,000 topographic map in Netherlands
 - Use of high-res aerial and panoramic photo's
 - Distribution of data and maps
 - Special products
 - Automatic generalisation
 - LEAN approach, practical advice and
 - In-house training of topographers