

1spatial.com



1Spatial Management Suite to support European data harmonisation





Quality is essential



We always need more...



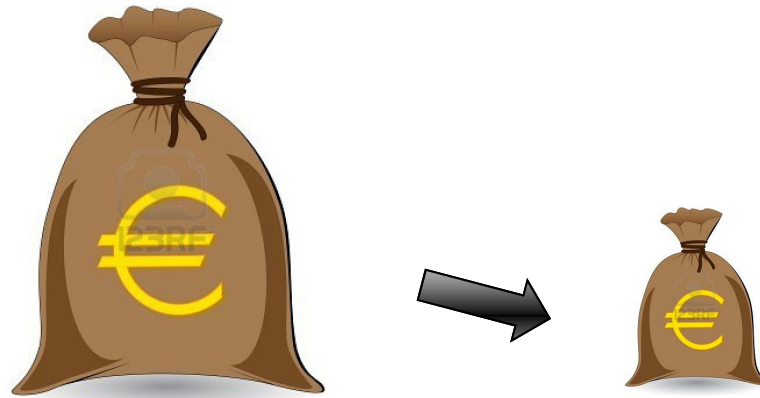
Harmonisation, standards



Do more with less



Data producers are under pressure to deliver more with less resources





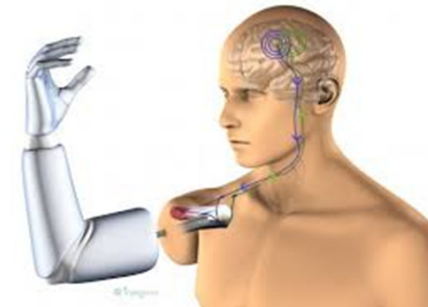
1SMS for ELF



1 generalise

1 integrate

1 validate



Configurable automatic data validation



The screenshot displays the 1validate web application interface. The browser address bar shows the URL `msvalidatelab01:8021/admin/jsp/studioFrames.jsp#rule`. The application has a top navigation bar with tabs for 'Rules' and 'Context'. On the left, a tree view shows a hierarchy of rules, with 'bl_011_distinctive_name_all_buildings' selected. The main area is split into 'General' and 'Rule Condition' tabs. The 'Rule Condition' tab shows a logical rule structure: 'If ... Then ...' with conditions: 'BUILDING_ENGLISH_NAME_VALUE does not equal null', 'BUILDING_ENGLISH_NAME_VALUE does not equal null', 'BUILDING_ENGLISH_NAME_VALUE does not equal BUILDING_FORM_ID', and 'BUILDING_ENGLISH_NAME_VALUE does not equal BUILDING_FUNC_ID'. The 'Element Details' panel on the right shows 'Class: BUILDING' and 'Name:'. A description at the bottom reads: 'Check for BUILDING objects that if BUILDING_ENGLISH_NAME_VALUE does not equal null then BUILDING_ENGLISH_NAME_VALUE does not equal BUILDING_FORM_ID and BUILDING_ENGLISH_NAME_VALUE does not equal BUILDING_FUNC_ID'. The footer indicates 'Radius Studio Development SNAPSHOT'.



Validation services for ELF



1spatialcloud Welcome back thomas.mckenna@1spatial.com Remaining credits: 338876 [User] [Help] [Power]

1.Upload File [Up] 2.Drag Rules [Hand] 3.Validate Data [Check] 4.Download Report [Down] [Trash]

Available Rules

- Segments
- ELF
- 1Cloud

Current Workspace Usage History

Input Details

Uploaded File : TN_ALL.zip
Total Features : 621790

Feature Details

Feature Name	# of features
Beacon	16
VerticalPosition	1398
RailwayLine	7036

Validation Details

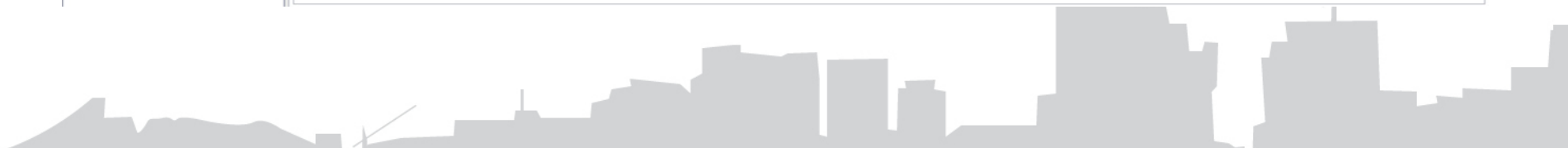
Finished data validation

Task	Features	Non-Conformances		Analysis	Status
		Features	Percentage		
Loading data	621796				[Success]
1Cloud					
TRA03 R G	120	120	100.00%	[Red Bar]	[Error]
TRA05 M1 M2 R G	112699	12	0.01%	[Yellow Bar]	[Warning]
TRA06 M1 M2 R G	7036	5	0.07%	[Yellow Bar]	[Warning]
TRA13 R G	3912	3912	100.00%	[Red Bar]	[Error]
TRA14	3912	3838	98.11%	[Red Bar]	[Error]
TRA16 M1 M2 R G	3912	3795	97.01%	[Red Bar]	[Error]

Report Details

Data Quality Status: [Error]

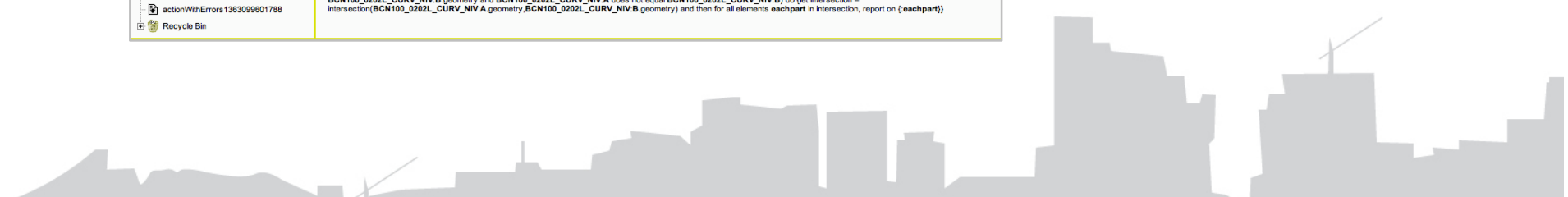
Click on the [Down] icon to download the full validation report



Automatic data enhancement



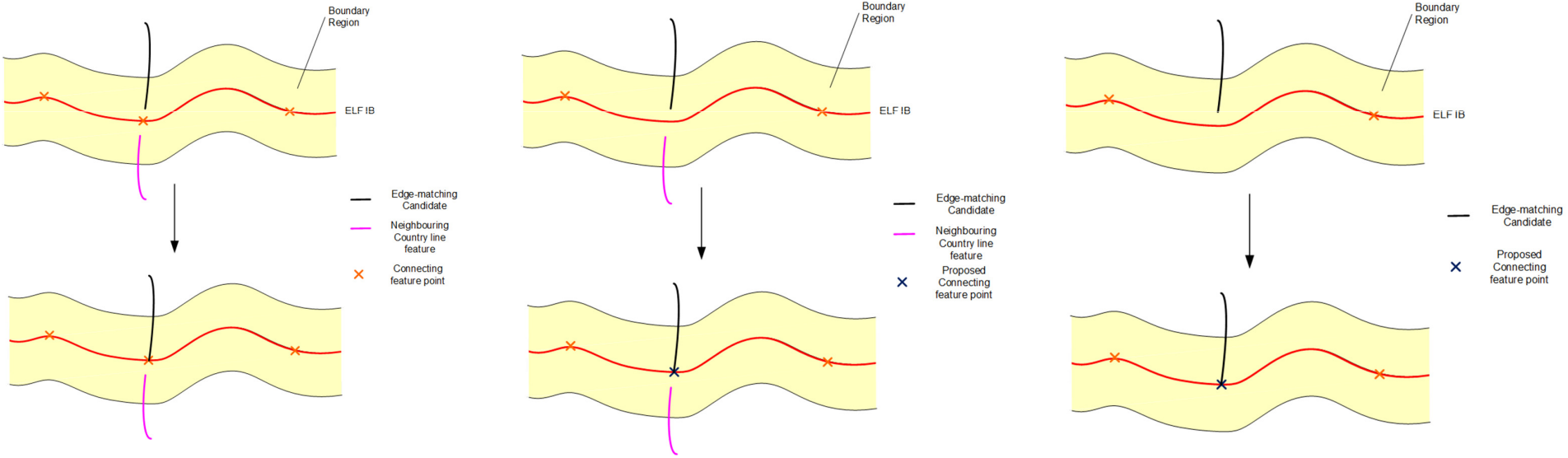
The screenshot displays the 1integrate web interface. On the left is a tree view of 'Actions' under the 'Context' tab, with 'T2_CURV_NIV_curvado (A)' selected. The main area is titled 'General Action Definition' and shows a workflow for processing BCN100_0202L_CURV_NIV objects. The workflow includes a 'Logical and' block with two conditions: 'BCN100_0202L_CURV_NIV.A.geometry intersects BCN100_0202L_CURV_NIV.B.geometry' and 'BCN100_0202L_CURV_NIV.A does not equal BCN100_0202L_CURV_NIV.B'. This is followed by a 'Sequence' block that performs an 'intersection' of the two geometries and then reports on each part of the intersection. The 'Element Details' panel on the right shows the class 'BCN100_0202L_CURV_NIV' and name 'A'. A description at the bottom explains the logic: 'For BCN100_0202L_CURV_NIV objects A: for all BCN100_0202L_CURV_NIV objects B for which (BCN100_0202L_CURV_NIV.A.geometry intersects BCN100_0202L_CURV_NIV.B.geometry and BCN100_0202L_CURV_NIV.A does not equal BCN100_0202L_CURV_NIV.B) do (let intersection = intersection(BCN100_0202L_CURV_NIV.A.geometry,BCN100_0202L_CURV_NIV.B.geometry) and then for all elements eachpart in intersection, report on {eachpart})'.



1Integrate for ELF



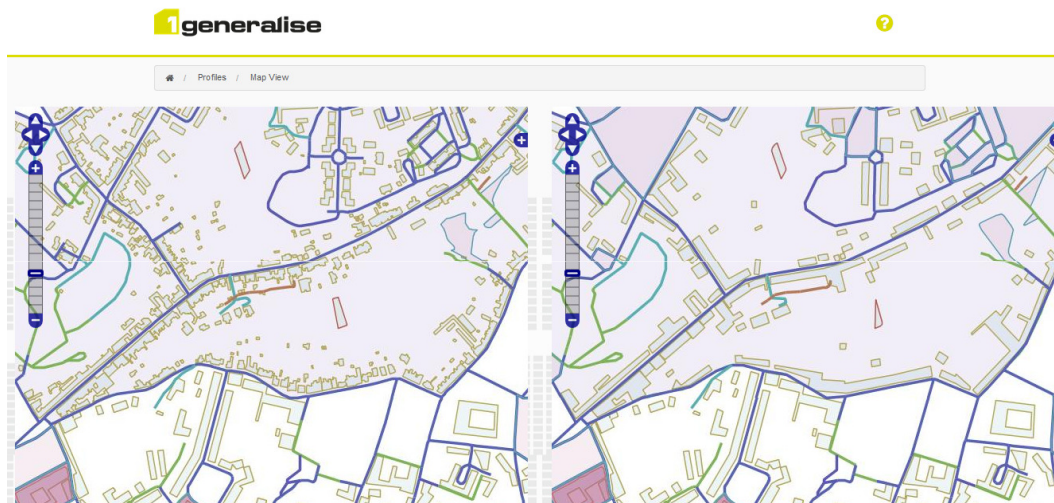
Example scenarios for cross-border edge matching



Automatic generalisation



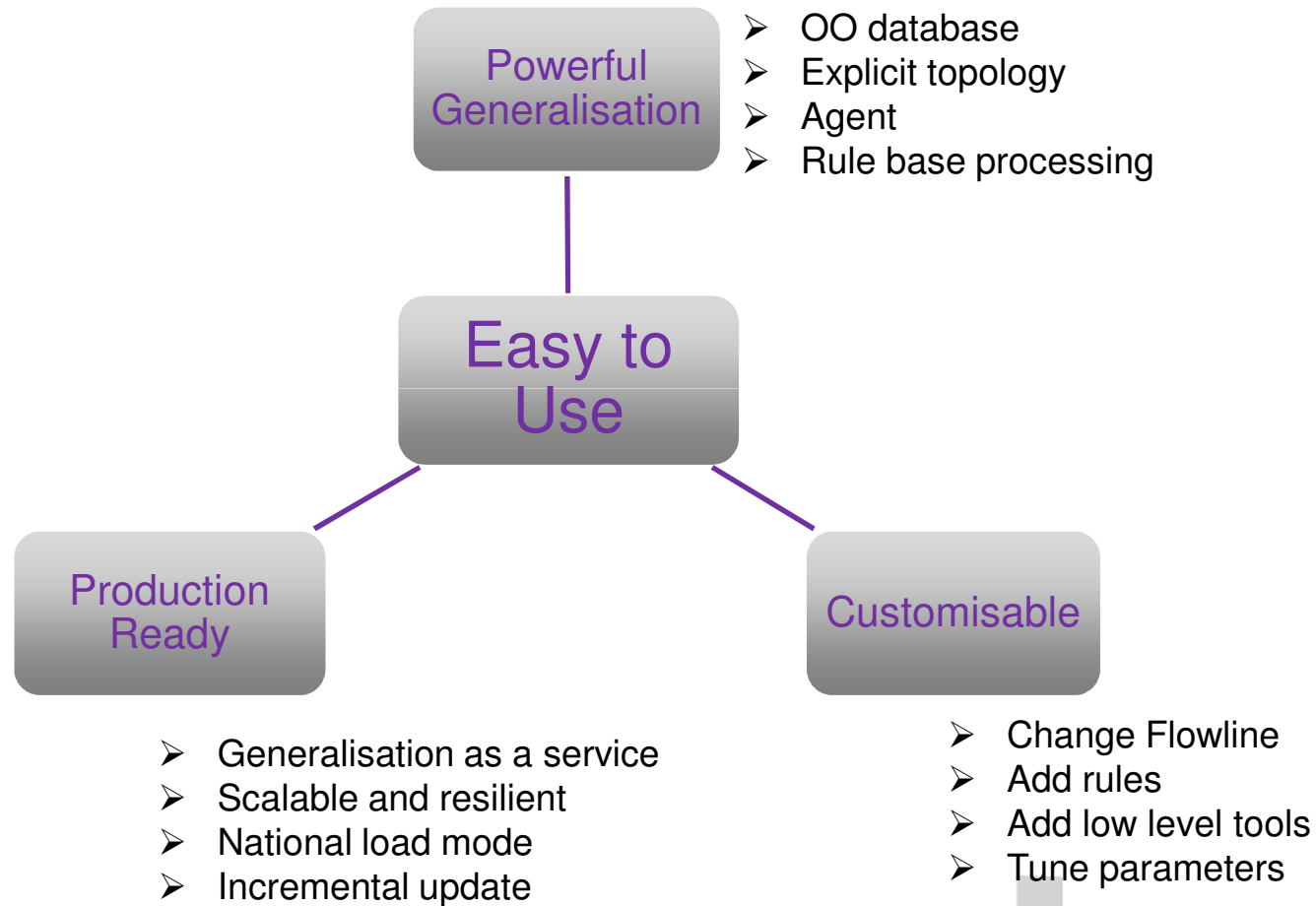
1generalise



Flexible and ready to use automatic generalisation system, supporting the initial creation of seamless national coverage and incremental updates.



Key Features



1 Generalise for ELF



2 flowlines under development:

- ELF Master 1 => ELF Master 2 DLM
(model generalisation)
- ELF Master 2 DLM => ELF Master 2 DCM
(cartographic generalisation, 1:50,000 scale)



Summary



1SMS provides tools to capture, maintain and publish spatial data.

Focus on:

- Quality
- Efficiency
- Flexibility

Originally designed for National Mapping and Cadastral Agencies but has many other applications (defense, hydrography, utilities...)

Used by the ELF project.



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Thank you

Visit us on our stand in the exhibition area
Demos on show!

