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# Data Quality, Maximising Business Value

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# Data Quality



**Manual  
Data  
Validation**





DHAKS  
CONSULT  
WILL  
EXPERIENCE  
VICTORY LIKE  
NEVER BEFORE  
UN

**Automatic  
Data  
Validation**



**One  
automatic  
cog in a  
larger  
system**

# What is “Good” Data Quality?



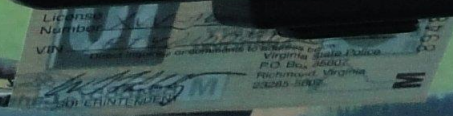
- ISO defines quality as the “degree to which a set of inherent characteristics fulfils requirements”



VS



goes

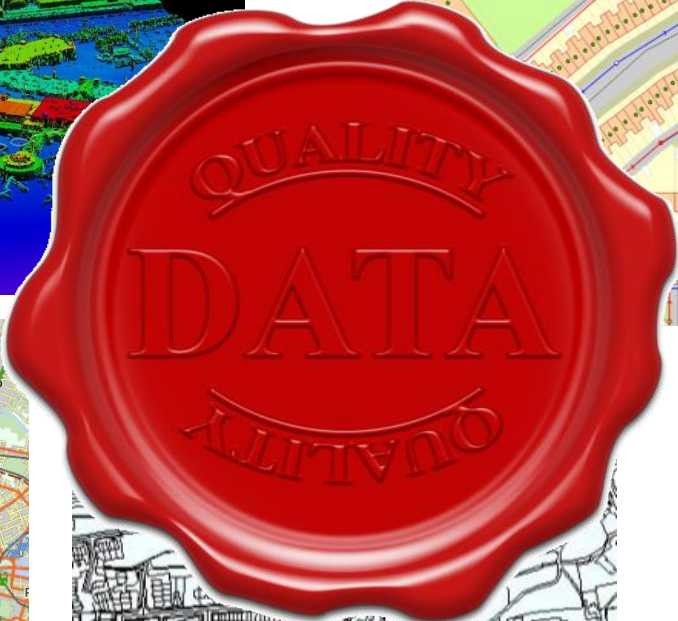
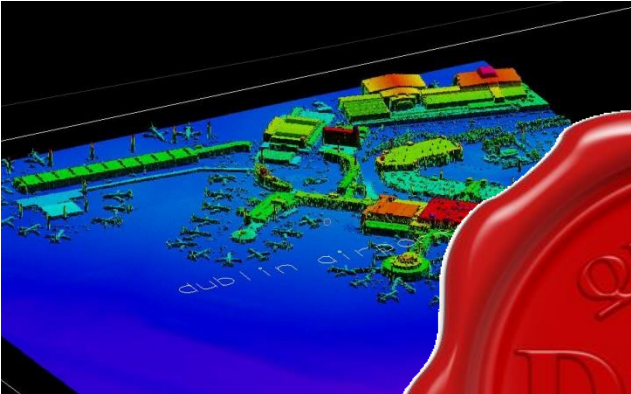




# Rules-based Data Validation



# Why Automatic Data Validation?



# Real Business Benefits



**Time & Cost  
Saving**

**2 weeks – 10 minutes**

**Rules based  
Processing**

**5-7yrs to 18 months**

**Efficiency by  
Automating**

**100% Manual – 100%  
Automatic**



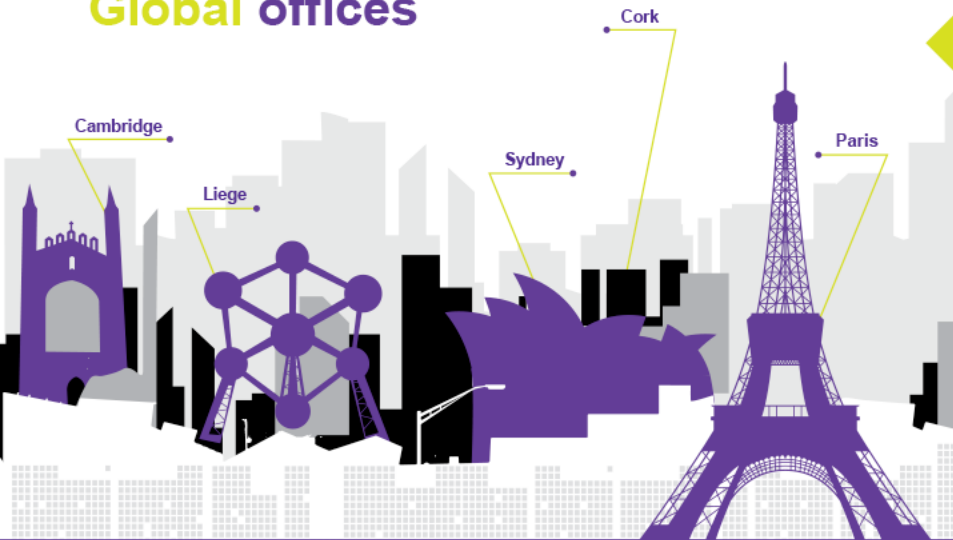
over **45 years**  
 innovation + development  
 in Geospatial solutions



### Technology partners



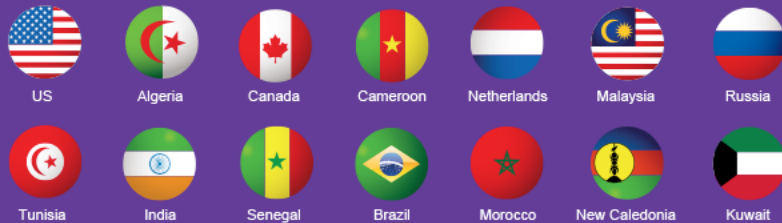
### Global offices



### Industry sectors



### Reseller partners



### Customers



# 1Spatial's Data Processing



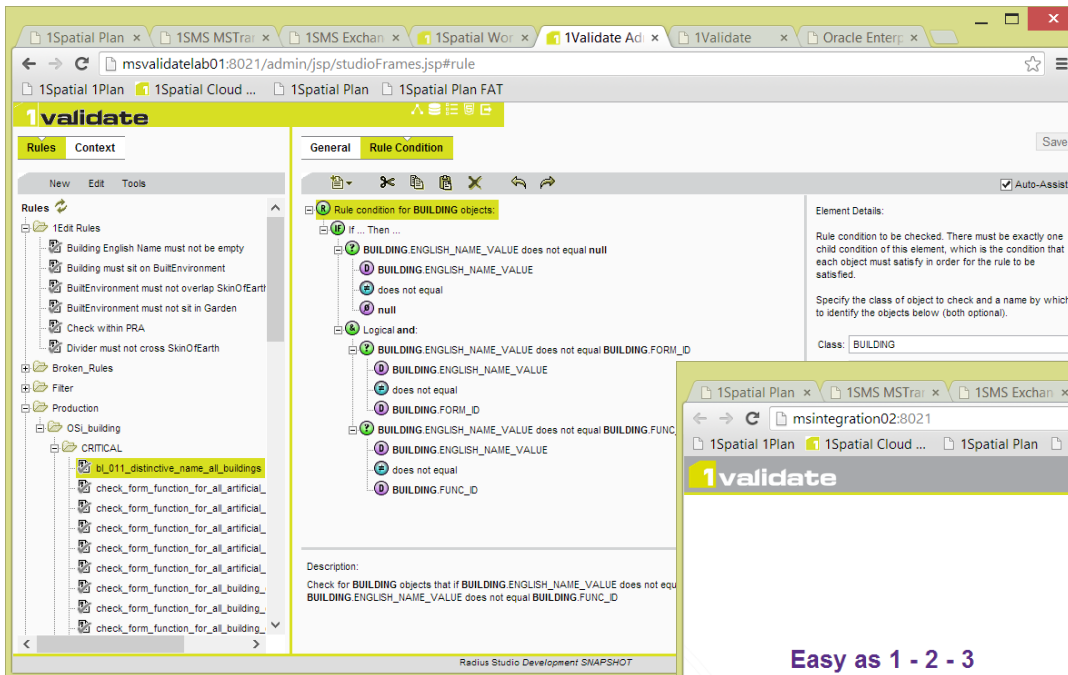
**1spatialmanagement**  
suite

**1spatialworkflow**

**1spatialmaintain**

**1spatialpublish**

**1 generalise**  
**1 integrate**  
**1 validate**

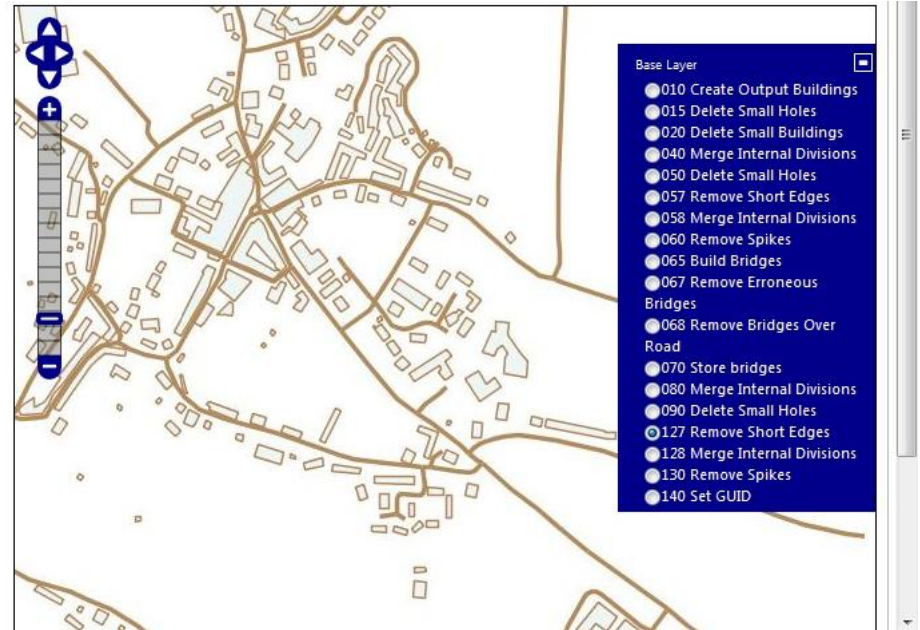
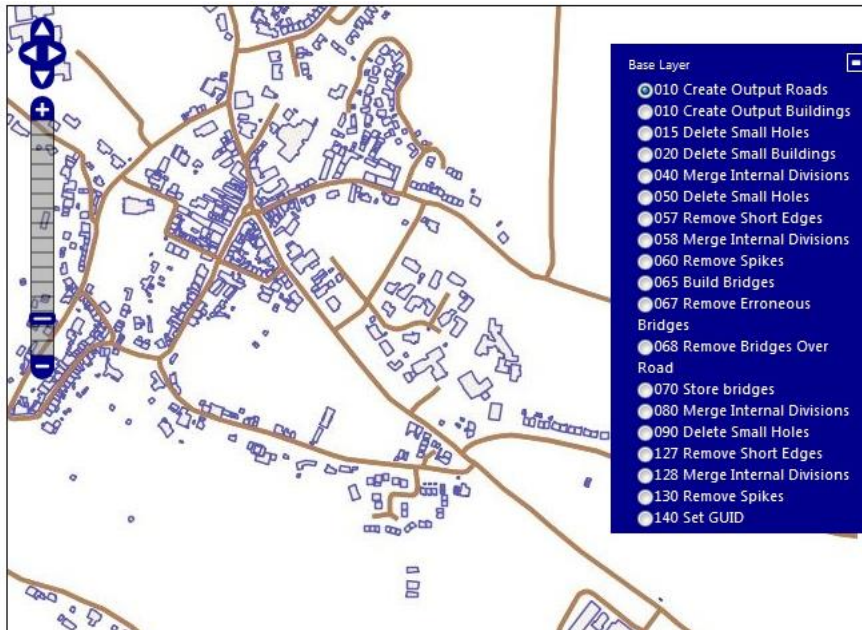


- Next generation Radius Studio technology
- Cloud enabled
- Validate data 'on-line'

The screenshot shows the 1 validate web application interface displaying a 'Data - Overview' screen. The browser address bar displays 'msintegration02:8021'. The application header includes the 1 validate logo and navigation tabs for '1Spatial 1Plan', '1Spatial Cloud ...', '1Spatial Plan', and '1Spatial Plan FAT'. The main area contains the text: 'Easy as 1 - 2 - 3 Discover the quality of your data in 3 simple steps.' Below this text is a large green button with the word 'Start' and a right-pointing arrow. The background features a stylized illustration of a hand pointing at a laptop, tablet, and smartphone displaying data. At the bottom, the footer contains the contact information: '1spatial.com | info@1spatial.com | +44 (0)1223 420414' and social media icons for LinkedIn, Facebook, and Twitter.

The screenshot displays the 1integrate web interface. On the left is a navigation tree with categories like 'Production Actions', 'Essential Geometric Checks', 'Network Checks', 'Polygon Checks', 'Polygon Gaps & Overlaps Checks', and 'SANDBOX'. Under 'SANDBOX', there are sub-categories like 'Sinfogeo\_FINAL' and 'T2\_CURV\_NIV\_curvado'. The 'T2\_CURV\_NIV\_curvado (A)' item is highlighted. The main area is titled 'Action Definition' and shows a hierarchical tree of operations. The root is 'Action for BCN100\_0202L\_CURV\_NIV objects A'. It branches into 'For all BCN100\_0202L\_CURV\_NIV objects B for which ...', which then splits into 'Logical and' and 'Sequence'. The 'Logical and' branch contains two conditions: 'BCN100\_0202L\_CURV\_NIV.A.geometry intersects BCN100\_0202L\_CURV\_NIV.B.geometry' and 'BCN100\_0202L\_CURV\_NIV.A.geometry does not equal BCN100\_0202L\_CURV\_NIV.B.geometry'. The 'Sequence' branch contains 'Let Intersection = intersection(BCN100\_0202L\_CURV\_NIV.A.geometry, BCN100\_0202L\_CURV\_NIV.B.geometry)', followed by 'Intersection', 'Intersection(...)', and 'For all elements eachpart in intersection ...'. The 'eachpart' branch contains 'Intersection' and 'Report...'. The 'Report...' operation is set to 'eachpart'. On the right, the 'Element Details' panel shows 'Class: BCN100\_0202L\_CURV\_NIV' and 'Name: A'. At the bottom, a 'Description' field contains the text: '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.geometry 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})'.

- Change driven product component generation
- Integrate Maintenance and Supply systems
- Automatic Correction



- Perform automated model and cartographic generalisation
- Automate creation of small scale data
- Define repeatable rules



# Quality- It Matters



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# Thank you

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