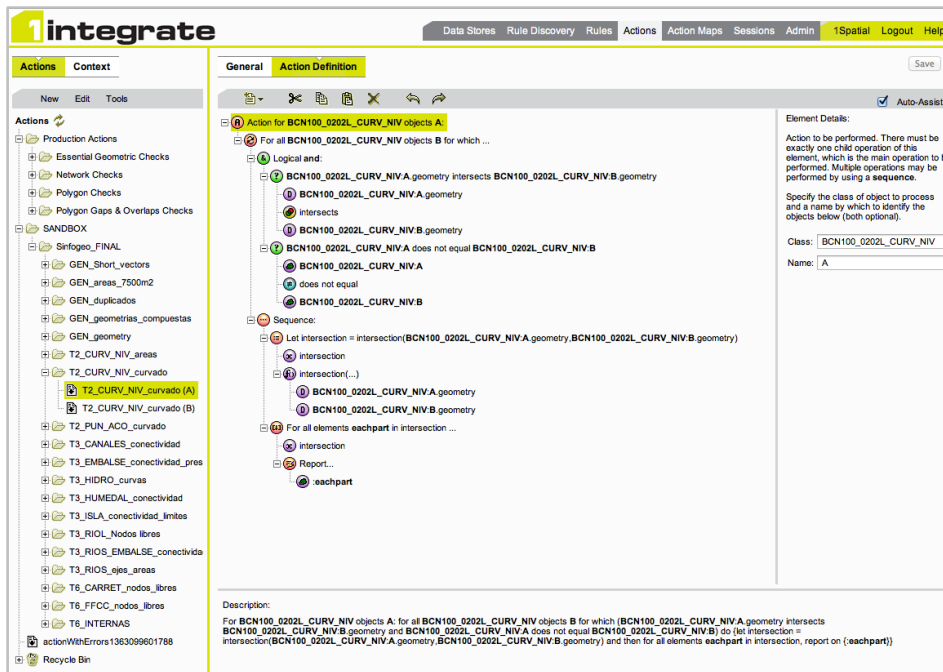




1Spatial

Automated Data Quality and Integration



The screenshot displays the 1integrate web interface. The left sidebar shows a tree view of 'Actions' categorized into 'Production Actions' (Essential Geometric Checks, Network Checks, Polygon Checks, Polygon Gaps & Overlaps Checks), 'SANDBOX', and various 'GEN' and 'T2'/'T3'/'T6'/'T8' actions. The main area is titled 'Action Definition' and shows a rule configuration for 'Action for BCN100_0202L_CURV_NIV objects A'. The rule logic is as follows:

- For all BCN100_0202L_CURV_NIV objects B for which ...
 - Logical and:
 - BCN100_0202L_CURV_NIV.A geometry intersects BCN100_0202L_CURV_NIV.B geometry
 - BCN100_0202L_CURV_NIV.A geometry
 - Intersects
 - BCN100_0202L_CURV_NIV.B geometry
 - BCN100_0202L_CURV_NIV.A does not equal BCN100_0202L_CURV_NIV.B
 - BCN100_0202L_CURV_NIV.A
 - does not equal
 - BCN100_0202L_CURV_NIV.B
 - Sequence:
 - Let intersection = intersection(BCN100_0202L_CURV_NIV.A geometry, BCN100_0202L_CURV_NIV.B geometry)
 - Intersection
 - Intersection(...)
 - BCN100_0202L_CURV_NIV.A geometry
 - BCN100_0202L_CURV_NIV.B geometry
 - For all elements eachpart in intersection ...
 - Intersection
 - Report...
 - eachpart

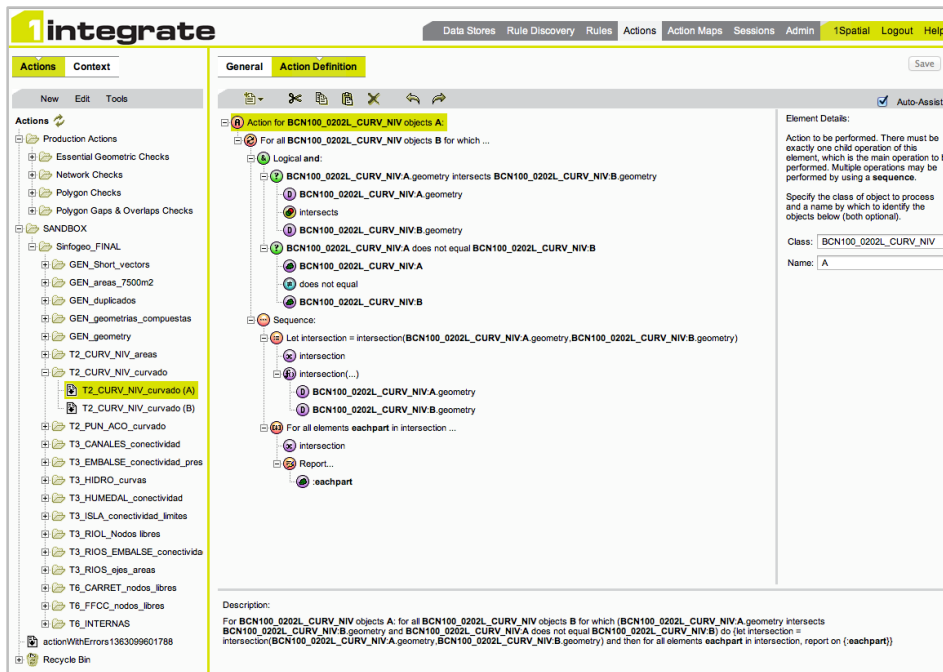
The 'Element Details' panel on the right shows:

- Action to be performed. There must be exactly one child operation of this element, which is the main operation to be performed. Multiple operations may be performed by using a sequence.
- Specify the class of object to process and a name by which to identify the objects below (both optional).
- Class: BCN100_0202L_CURV_NIV
- Name: A

The 'Description' at the bottom reads:

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))

- Intelligent Rules engine
- Creation of Rules to interrogate data
 - Data Validation
- Creation of Actions to alter data:
 - Automated data fix-up
 - Automated data integration
 - Automated data inference



The screenshot shows the 1integrate software interface. The left sidebar contains a tree view of actions, with 'T2_CURV_NIV_curvado (A)' selected. The main window displays the 'Action Definition' for this action. The definition is a sequence of operations:

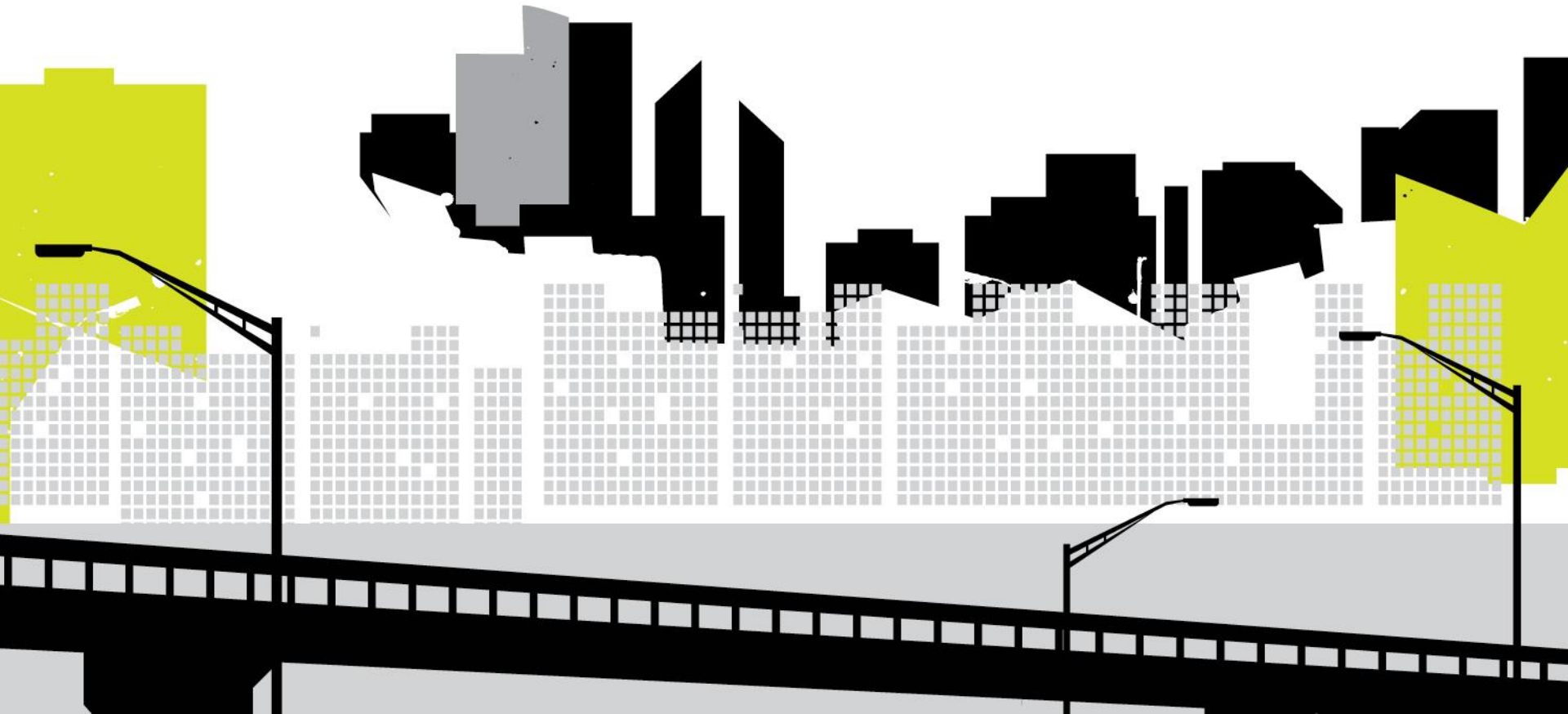
- For all BCN100_0202L_CURV_NIV objects B for which ...
 - Logical and:
 - BCN100_0202L_CURV_NIV.A geometry intersects BCN100_0202L_CURV_NIV.B geometry
 - Intersects
 - BCN100_0202L_CURV_NIV.A geometry
 - BCN100_0202L_CURV_NIV.B geometry
 - BCN100_0202L_CURV_NIV.A does not equal BCN100_0202L_CURV_NIV.B
 - BCN100_0202L_CURV_NIV.A
 - does not equal
 - BCN100_0202L_CURV_NIV.B
 - Sequence:
 - Let intersection = intersection(BCN100_0202L_CURV_NIV.A geometry, BCN100_0202L_CURV_NIV.B geometry)
 - Intersection
 - Intersection(...)
 - BCN100_0202L_CURV_NIV.A geometry
 - BCN100_0202L_CURV_NIV.B geometry
 - For all elements eachpart in intersection ...
 - Intersection
 - Report...
 - eachpart

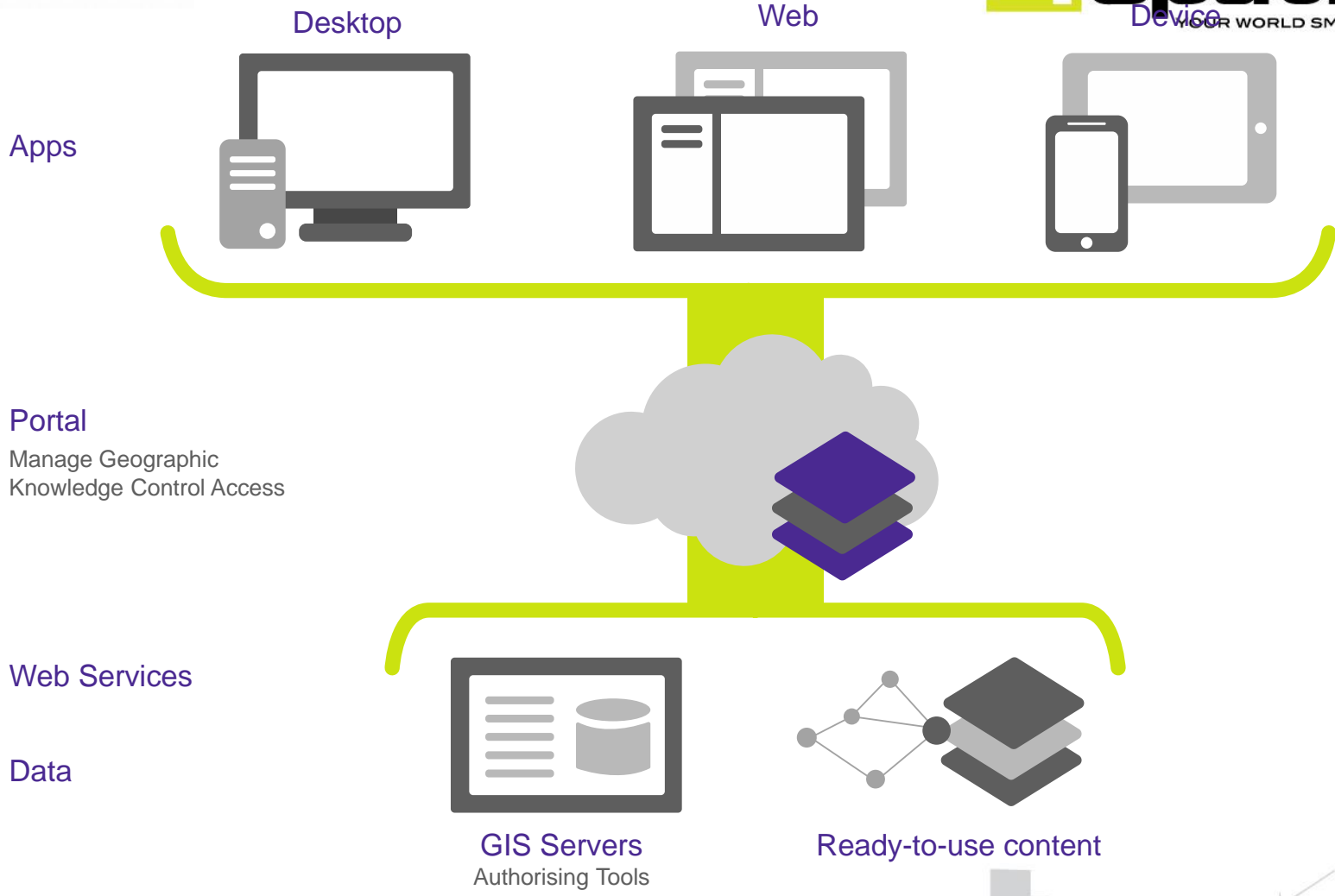
The 'Element Details' panel on the right shows the class 'BCN100_0202L_CURV_NIV' and the name 'A'. The 'Description' at the bottom reads: 'For BCN100_0202L_CURV_NIV objects A: for all BCN100_0202L_CURV_NIV objects B for which (BCN100_0202L_CURV_NIV.A geometry intersects BCN100_0202L_CURV_NIV.B geometry 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))'.

- Customizable rules and actions
- Created by SMEs not developers
- Knowledge Transfer to customers
 - Customer control
 - Reduced consultancy fees
- Sits at the heart of the data processing environment
- GIS agnostic

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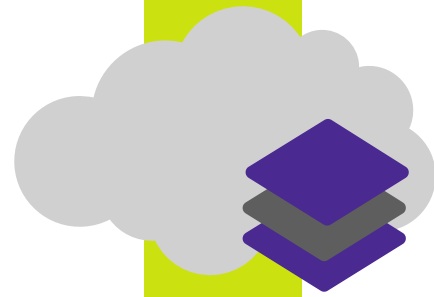
integrate for ArcGIS







Portal
Manage Geographic
Knowledge Control Access

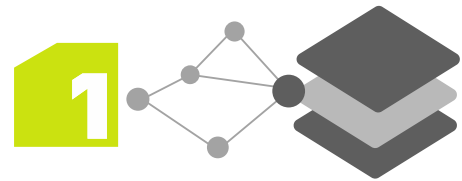


Web Services

Data



GIS Servers
Authorising Tools



Ready-to-use content

Rules Engine
Rule Store



Applications in Transportation



ARNOLD & HPMS Submissions

- Automated Data Quality & Fix-up
- Automated Data Conflation

Third Party & Non Centerline Data

- Automated Data Integration



Automated Data Quality & Fix-up



Automated Data Conflation



Automated Data Integration