

Dira ProSuite for ArcGIS Pro

- Product Overview
- Typical Use Cases
- Collaborative Quality Improvement

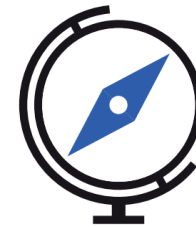
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Paola Dürlewanger



Dira GeoSystems: The Mission

Geospatial data is part of the critical infrastructure of the world. High-quality data is essential for good decision-making.

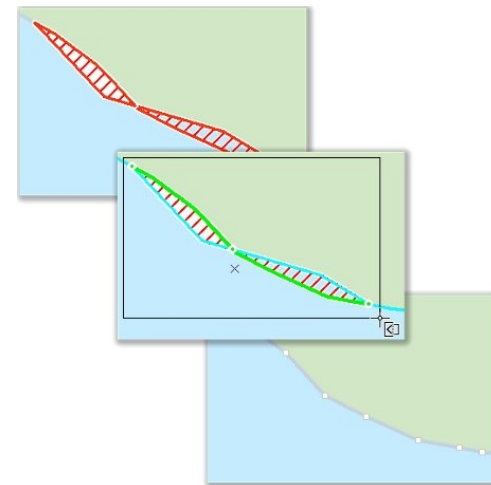
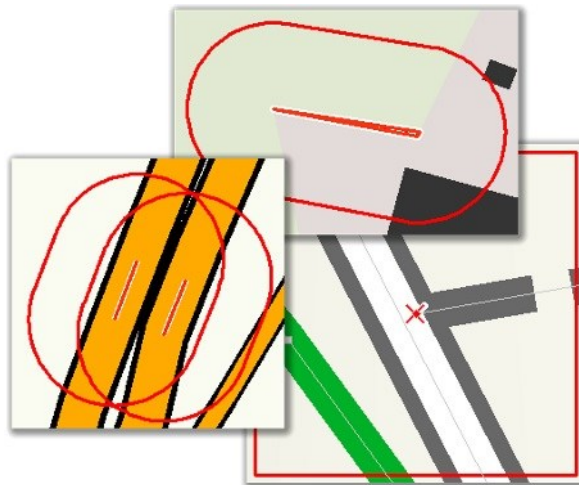
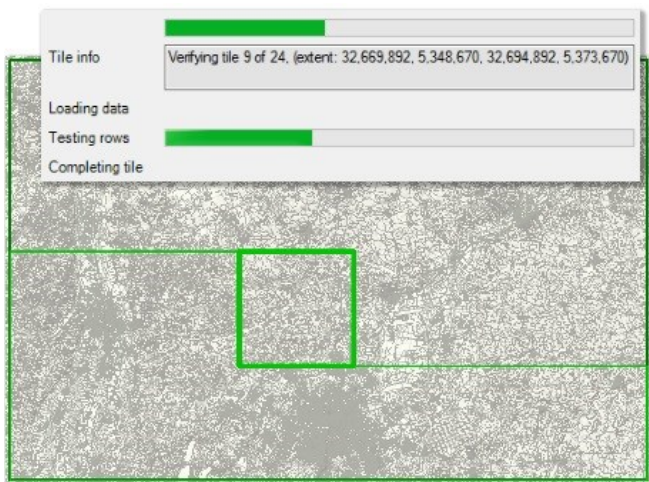
We provide data production and processing software built together with national mapping agencies and other organizations that create geospatial data.



DIRA
GEOSYSTEMS

ProSuite: Quality Assurance for Geodata

- Efficient, powerful validation logic (> 130 test algorithms)
- During interactive editing and import/export of geospatial data
- Integrated in ArcGIS or through Python scripting
- Efficient interactive error correction and data editing
- Edit tools are generally useful for efficient editing



ProSuite Applications

- **ArcGIS Pro Add-in**

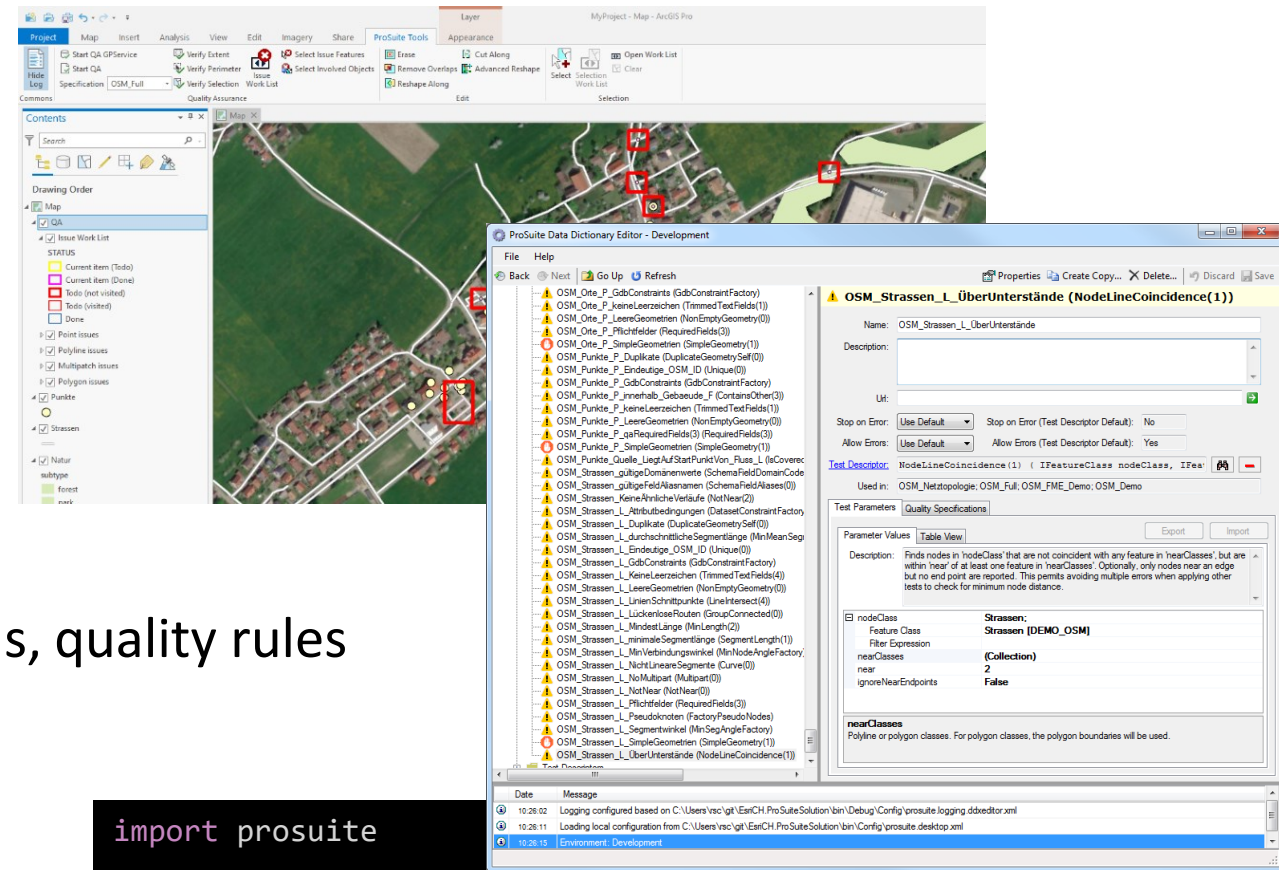
- Edit tools
- Quality verification
- Worklists

- **Administration and Configuration**

- Client for configuration database
- Administration of projects, data models, quality rules

- **Python API**

- Base for Geoprocessing Tools
- Quality rules defined in code or XML
- Call from any clients, from other tools

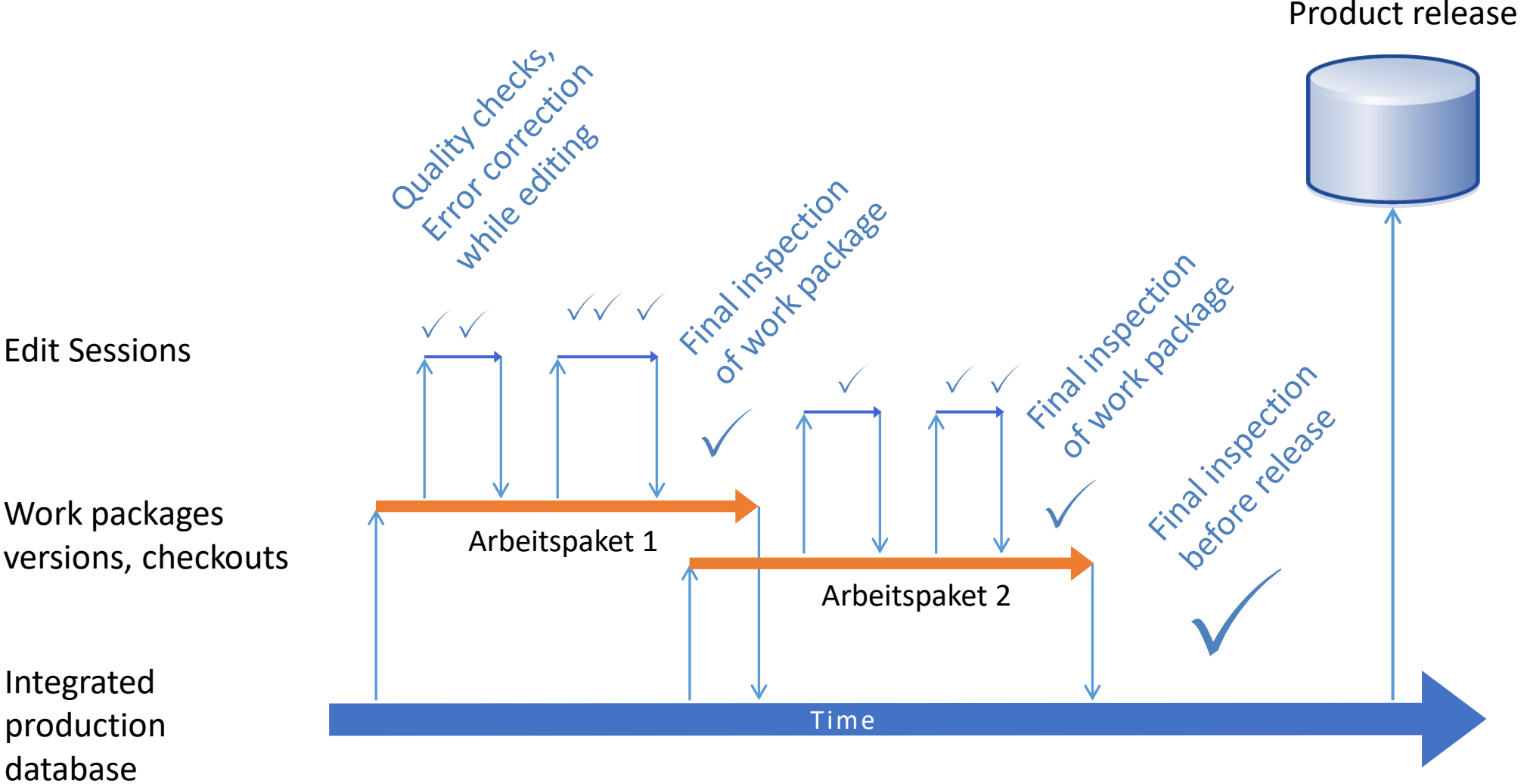


```
import prosuite

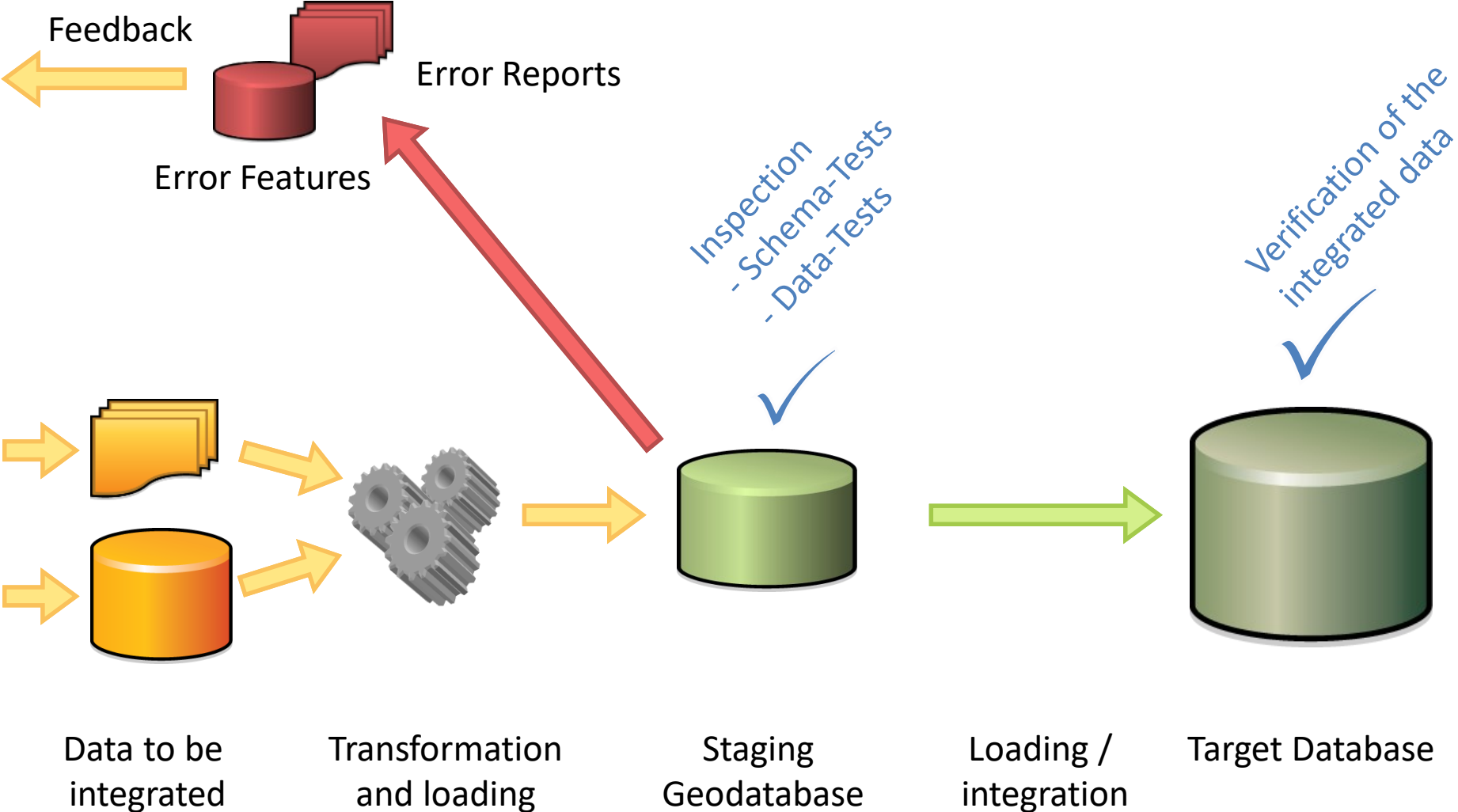
spec = prosuite.XmlSpecification("\\share\\QA\\basic.qa.xml")
out_dir = "\\share\\QA\\results\\basic_output"

service = prosuite.Service(host_name='localhost', port_nr=5151)
service.verify(specification=spec, output_dir=out_dir)
```

Use Case: Data Production



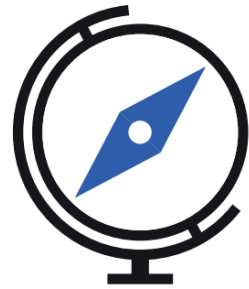
Use Case: Data Integration



Collaboration using ProSuite QA

- Datasets are checked centrally
 - And optionally by the producer (shared quality definition)
 - Planned: Verification Service in the Cloud
- Specific boundary tests between regional datasets
 - Connectivity, edge matching, attributes
- Error reports and features do not require ArcGIS
 - HTML and Shapefiles/File Geodatabase
 - But: Corrections are more efficient with ProSuite Work-List

Demo



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GEOSYSTEMS

Dira ProSuite für ArcGIS Pro

- Large part is open source
- Collaboration of NMAs, cantons and software developers
- New tools/features are implemented regularly
 - Parallel execution
 - Feature Transformations and Error Filters
- Customers in 3 countries
- Support for
 - ArcGIS Pro 2.9 - 3.x
 - ArcGIS Server 10.9.1 – 11.x