SEVA - Scalable Change Detection

Mike Sips + SEVA Team, November 2019
What is SEVA?
Challenges and solutions

What are the important properties of my data?

Choose data from archives → Train ML-model → Change-detection → Assess Changes

Solution: DataExplorer
Challenges and solutions

How can I train ML-models over huge Sentinel-2 data sets?

Choose data from archives → Train ML-model → Change-detection → Assess Changes

State-of-the-art
big data architecture
Challenges and solutions

How can I evaluate complex ML-models in terms of expected changes?

Choose data from archives → Train ML-model → Change-detection → Assess Changes

Solution: ErrorExplorer
Challenges and solutions

What are the relevant (and meaningful) changes for my application scenarios?

Solution: ChangeExplorer
What is SEVA?

Systematic approach that address important challenges of your change-detection activities
SEVA in action

Exploration of changes: What are the relevant (and meaningful) changes for my application scenarios?
SEVA wants you ...

[git@gitext.gfz-potsdam.de:sec15/software/seva.git]