About CloudSigma

- Swiss company founded in 2009, currently with just over 50 employees.
- Leading European IaaS provider with a focus on flexibility & performance.
- Direct connectivity to GÉANT.
- Three European cloud locations in Zurich, Frankfurt and Warsaw, and a few more planned for 2017-2018.
- A global location network (Washington DC, Miami, San Jose, Honolulu, Perth, Melbourne and Manila).
Combining our cloud offering with the extensive capabilities of our data center partners, our customers can receive the full spectrum of infrastructure delivery.
CloudSigma Experience in EO Services

Science Data Cloud
InfoaaS Stimulus Project

H2020 Project
SEO-Dwarf

Delivering value to your business
A web service/API is available for querying the repository based on relevant SAR parameters with the ability to query InSAR compatible pairs.

The data sets can be pulled out of object storage on-demand using the APIs and web services.

Normalised / processed data sets will be made available for specific AoI.

Additional services can be provided upon request, e.g. an on-demand InSAR processing service that allows users to select two compatible Sentinel-1 TOPS SLCs to produce terrain-corrected interferogram and coherence images suitable for deformation studies.
The Ecosystem Model

**Value Propositions**

- Increased accessibility
- Instant scalability
- Commercial grade service provision
- Increased sustainability
- Open & flexible platform
Use Case (1) - SpaceAnalyzer

- Critical Infrastructure Monitoring using Sentinel 1 data in combination with DEM/DTM and other reference geographic data (e.g. roads or railways).

- Specifics: monitor the vertical micro movements of buildings and roads.

- Currently being developed based on CloudSigma satellite data platform.

- Applications: agriculture, marine/coastal monitoring, forestry, environmental monitoring, natural hazards.
Use Case (2) - Mundialis

- GRASS GIS-as-a-Service: a scalable geodata processing service that brings your algorithms to big data.
- Offers sophisticated spatio-temporal map algebra to process time-series in parallel that can contain up to 1,000,000 satellite images with access time under a minute.

- Provides direct access to petabytes of open Earth observation data like Sentinel-2, Landsat TM and many more for big geodata analysis.
- Deployed on CloudSigma and AWS clouds.
Use Case (3) - BOS Technologies

- Portal services
- Maps of displacements and/or longer term velocity estimates to measure:
  - tectonic motion (that may be used for seismic hazard assessments)
  - movement and flexure estimates on dams, buildings and other infrastructure.
- Analysis of earth displacements done using Sentinel-1 data on the CloudSigma cloud.
Use Case (4) - Planetek & CloudEO

- Science Data Cloud using Landsat and Sentinel-1 data
- Executed on CloudSigma and Planetek ICT
- Service offering made available on the CloudEO Store utilizing a pay-per-use pricing model
- Implementing revenue share and pay-per-use between the contributing parties
The Ecosystem Value Chain

- An end user finds the service via the Marketplace of services.
- Then the end user who is using CloudSigma existing merchant services is able to easily deposit EUR100 into his account from his credit card and purchase the service.
- The marketplace takes a between 15% and 25% commission from the service and passes the rest onto the service provider (i.e. the individual or organisation that built the hosted processing service being used). In the above example the commission is 15%.
- The service owner also needs to pay for the underlying computing infrastructure used to deliver the service.
- A single price for marketplace + cloud infrastructure can also be negotiated.
Thank you for your attention!

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