GEANT info share on TRE

Ivar Janmaat
Manager SURF Research Cloud

ivar.janmaat@surf.nl
06 38678601

Services:
- SURF Research Cloud
- SURF HPC Cloud

Projects:
- Secure ANalysis Environment (SANE) project
- Social Science and Humanities Open Cloud (SSHOC-NL)
- European Environment for Scientific Software Installation
- E-Ecology project
- SURF Container Orchestration project
- X-omics project
- GEANT GN5.1 Above the net services -> GN5.2 TRE
- Elixir Compute Platform WP4 co-lead

SURF

SANE:
Secure
ANalysis
Environment

Best practice:
Five safes

Image: UKDS ©

Office for
National Statistics

UK · DATA
ARCHIVE

EOSC ENTRUST

SATRE
Standard Architecture for Trusted Research Environments⍰

SATRE provides a standard referencearchitecture for trusted research environments (TREs). SATRE can be used for evaluating TRE's
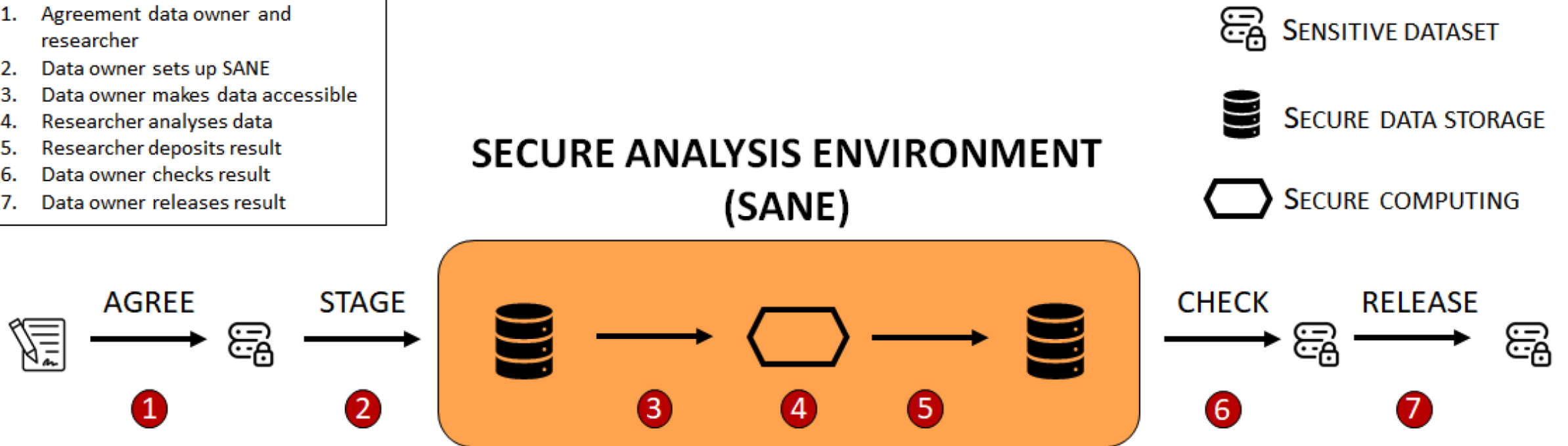
Procedure and tools

SANE = Procedure

SURF Research Cloud = Tool

SANE – Workflow

STEPS
1. Agreement data owner and researcher
2. Data owner sets up SANE
3. Data owner makes data accessible
4. Researcher analyses data
5. Researcher deposits result
6. Data owner checks result
7. Data owner releases result

SENSITIVE DATASET

SECURE DATA STORAGE

SECURE COMPUTING

SECURE ANALYSIS ENVIRONMENT (SANE)

AGREE ①

STAGE ②

③   ④   ⑤

CHECK ⑥

RELEASE ⑦

SURF

Different roles and requirements

Dataprovider
- Full control
- No costs

Researcher
- Has budget (grant)
- Needs to comply with dataprovider requirements to get access to the data.

SANE
Secure ANalysis Environment

SANE is a virtual, fully shielded computing environment containing pre-approved analysis software and access to the sensitive data. It allows the data provider to maintain complete control while still allowing the researcher to study the data in a convenient manner.

Tinker SANE: allows the researcher to see, manipulate and play with the data.

Blind SANE: the researcher submits an algorithm without being able to see the data and the data provider approves the algorithm and output.

SURF

SANE Demo