

# Driver 1: Federated Human Genomics

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# Driver 1 partners

- CRG
- BSC
- EMBL-EBI
- CSC



# Roles in Genomics Data Management

As described in the GDI or Federated EGA context...

- Data Controllers own the data and have the responsibility of deciding who, which data, how, and for what data could be used.
  - Examples of Controllers: GDI Central DAC, GDI Local DAC, DACs of datasets submitted to FEAGA
- Data Processors, process the data as instructed by the corresponding DAC.
  - Takes NO decision on who, which data, how, and for what data could be used

# Leading questions

## Expectations from a TRE/SPE

- Must have:
  - Data encryption during transit
  - Provide the final user identity to apply proper permissions and auditing
- Should have:
  - Efficient mechanisms to optimize Driver resources (e.g. Hot storage or transfer bandwidth)
- Nice to have:
  - Capabilities to remove datasets after expiration date of lease is reached
  - Capabilities to request the minimal set of files or sections of files

# Leading questions

## **Current main Challenges**

- Key management for tailored encryption
  - Crypt4GH
  - .cip files
- Definition, specification, tooling and optimized operations for data minimisation



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