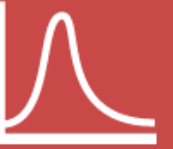


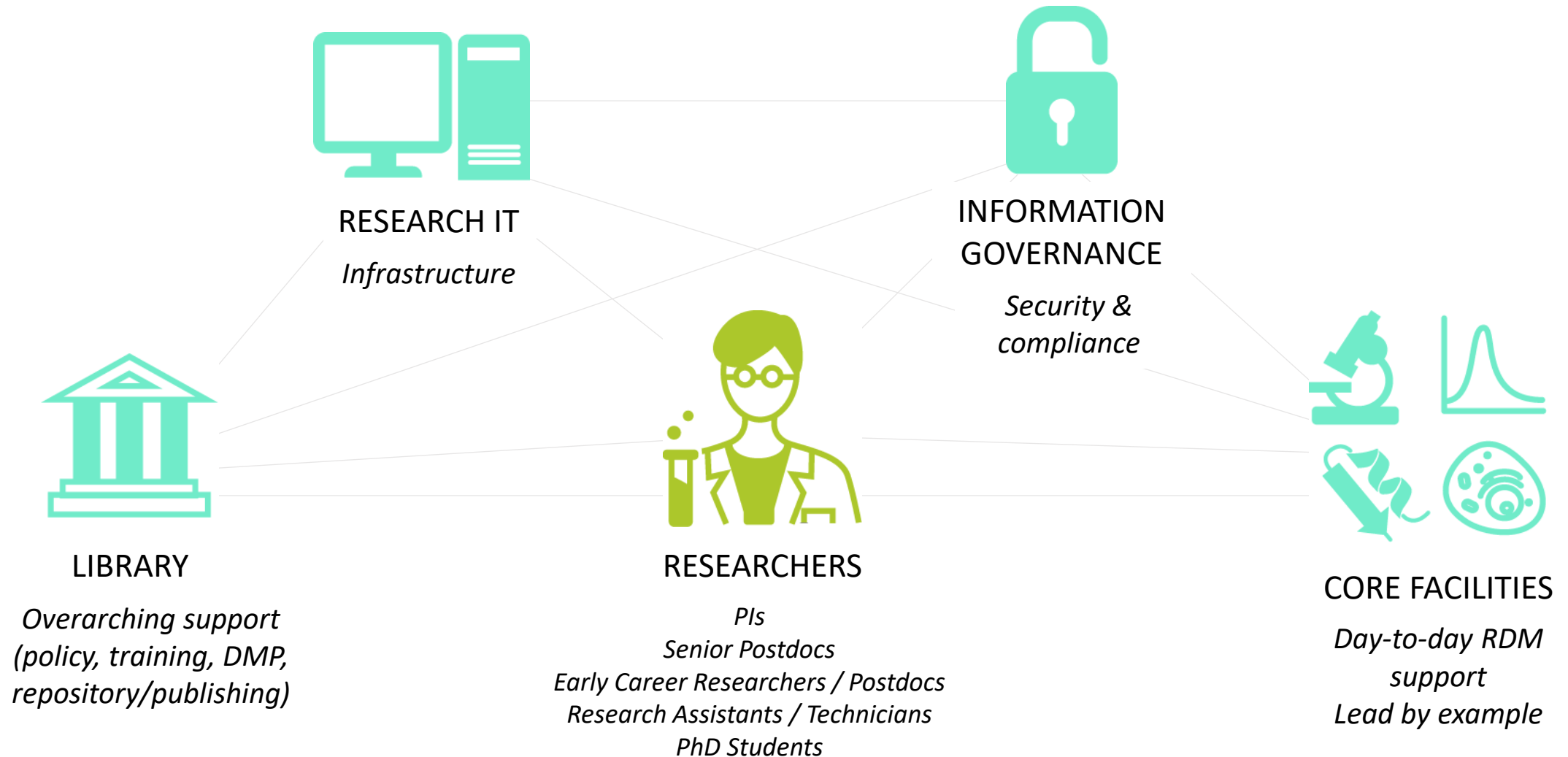
Building RDM best practice into Core Facility workflows

# FBMH Core Research Facilities

- 9 Core Facilities:  
Bioimaging, Sequencing, Mass Spectrometry, Electron Microscopy, Bioinformatics, Bimolecular Analysis, Genome Editing, Fly Facility, Flow Cytometry.
- Major data-generators in the Faculty.
- Core Facility data central to many research projects.
- Central managerial structure.



# Where do Core Facilities fit in the RDM landscape?



# How can Core Facilities help?

- Survey / discussions with PIs and Postdocs

## STORAGE & TRANSFER

- Accessibility
- Capacity
- GDPR/security
- Moving TBs of data

## ANNOTATION

- Metadata collection & sharing (meaningful data)
- Controlled vocabularies

## SHARING

- Internally
- External collaborators
- Publicly
- +/-

## TOOLS

- eLab books
- Data/project management tools

# RDM strategy for FBMH Core Research Facilities

## Mission Statement:

Efficient, streamlined data management solution to support researchers and maximise the use of Core Facility-generated data - **with minimal administrative hurdles!**

## Goals:

### 1) Single storage location

- **Known and accessible to the PI**
- Avoid duplication

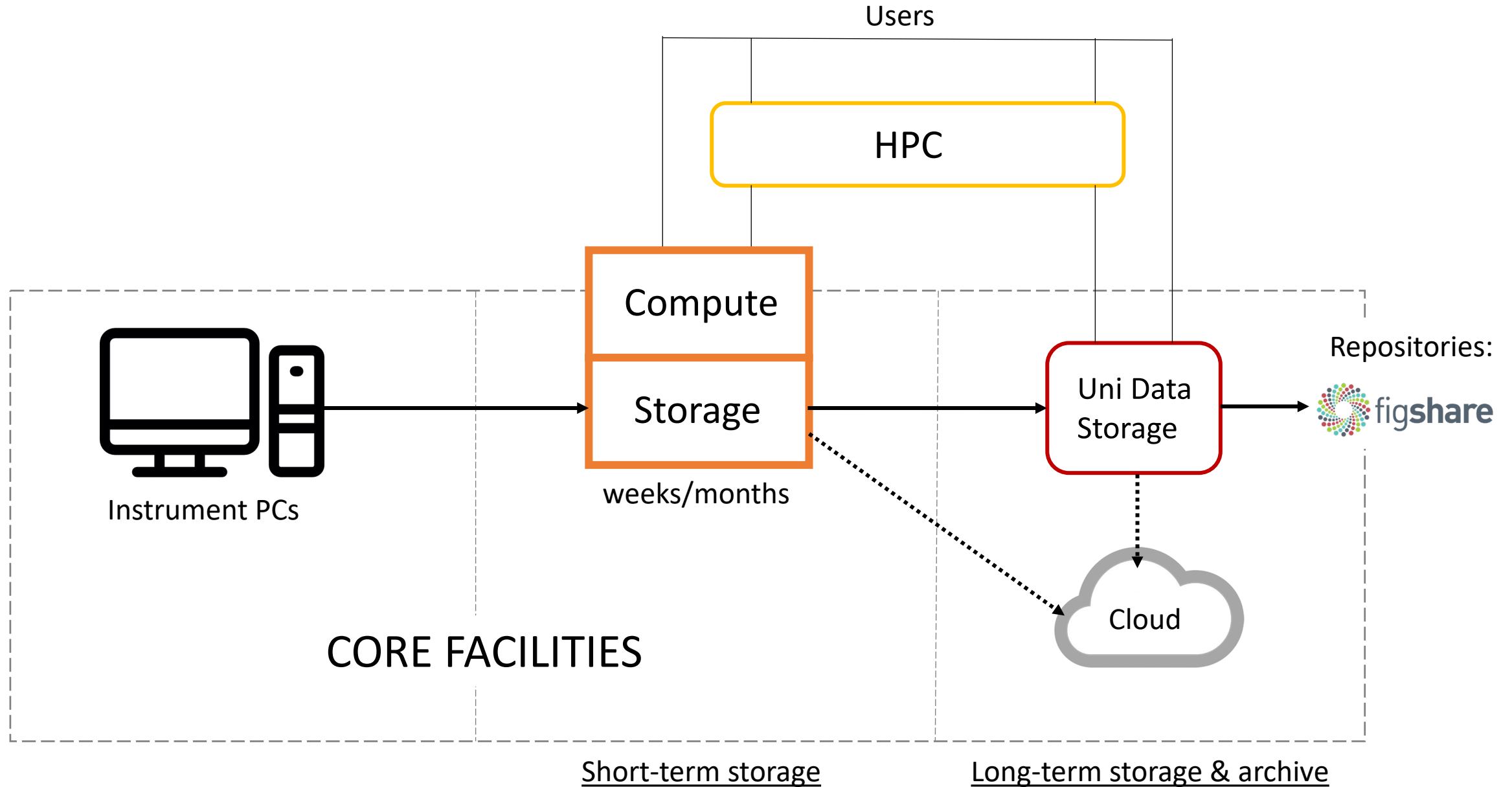
### 2) Streamline data transfer

- Moving data between short/long-term storage
- Minimise data transfer steps...
- Bringing compute to the data

### 3) Metadata collection

- Providing meaning, maximise data use/reuse
- Important for reproducibility & data integrity

# Our Approach: Local Storage and Compute Platform Model



# How we can embed best practice into our workflows?

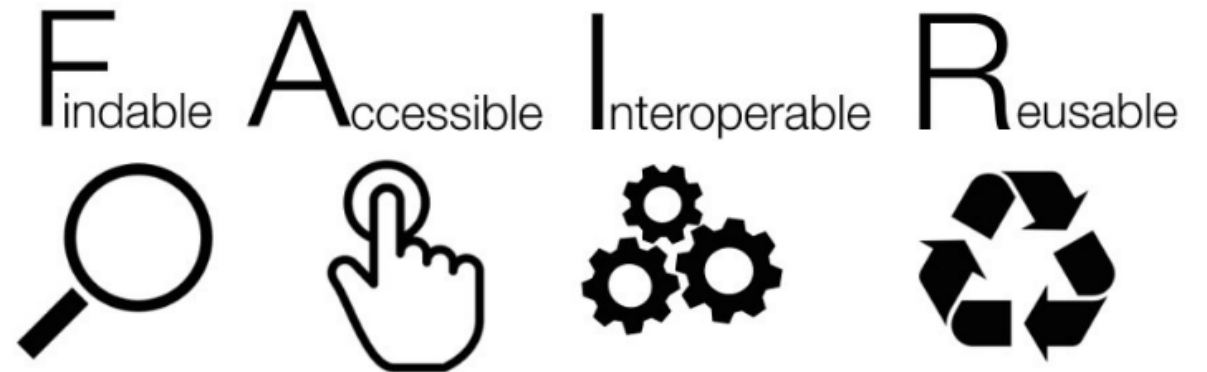
## 1) Metadata collection

- high-level via PPMS (**Findable**)
- detailed through Core Facility metadata templates (**Reusable**)
- controlled vocabularies (**Interoperable/Reusable**)
- possibility of porting metadata to the institutional repository (private/internal/**Findable/Accessible**)

## 2) File naming/formatting (**Interoperable**)

## 3) Training – do I really need that data?

- Quality control step
- Experimental design
- Wider context



# Challenges we face...

- Volume and complexity of the data
- Technical
- Design for scalability & adaptability
- Transfer of ownership

