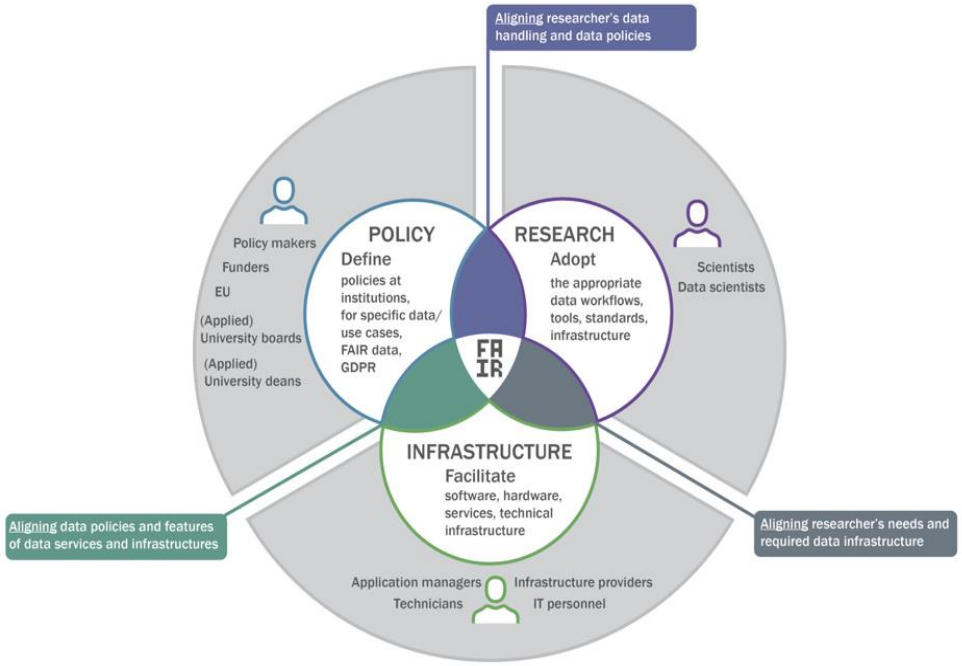
ET-PP D6.6 and D8.3

Data Access Policy, DMP And Implementation Guidelines

Data Access Policy, DMP and Implementation Guidelines

FAIR-by-design ET Data

WP6	ET Data Products (Science)	D6.1
	ET Data Access Policy and DMP	D6.6
WP8	ET Data Infrastructure & Services	D8.1 D8.2
	Data Access Implementation Guidelines	D8.3



Data Access Policy, DMP and Implementation Guidelines

FAIR-by-design ET Data

ET Data Access Policy

DMP Annex

D6.6

what ET commits to

how ET manages those commitments across the data lifecycle.

FAIR Implementation Guidelines

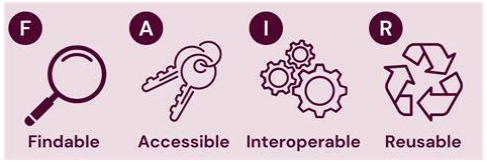
A FAIR-by-design methodology for Implementing Access to ET Data

D8.3

how the commitments are implemented technically and operationally.

Data Access Policy, DMP and Implementation Guidelines

FAIR-by-design ET Data



Data Access Policy in the Einstein Telescope Era

Michele Punturo[1], Michele Maggiore[2], Stefano Bagnasco[3], Marica Branchesi[4], Gianluca Inguglia[5], Alicia Magdalena Sintes Olives[6], Paul Laycock[2]

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for the ET collaboration

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The Einstein Telescope Computing and Data Model

GO FAIR foundation

FIP

Einstein Telescope

Data Access Policy Implementation Guidelines

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Barcelona Supercomputing Center
Centro Nacional de Supercomputación

Data Access Policy, DMP and Implementation Guidelines

The road to the ET Data Management Plan

Data Access Policy in the Einstein Telescope Era

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for the ET collaboration

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- Oriented to the ET Scientific objectives
- Global scenario context
- Legal framework constraints (Aahrus convention)
- European Research principles towards Open Science

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- Raw technical data: controlled collaboration access (volume, complexity, and cost constraints)
- Raw data environmental channels, according to legislation
- Streaming h(t)
- Aggregated h(t). → 18 months proprietary period
- Alerts
- Pre-merger alerts
- Event databases
- Software open-source policy
- Scientific papers
- Outreach and education material CC-By policy

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The Einstein Telescope Computing and Data Model

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EINSTEIN TELESCOPE

Data Access Policy, DMP and Implementation Guidelines

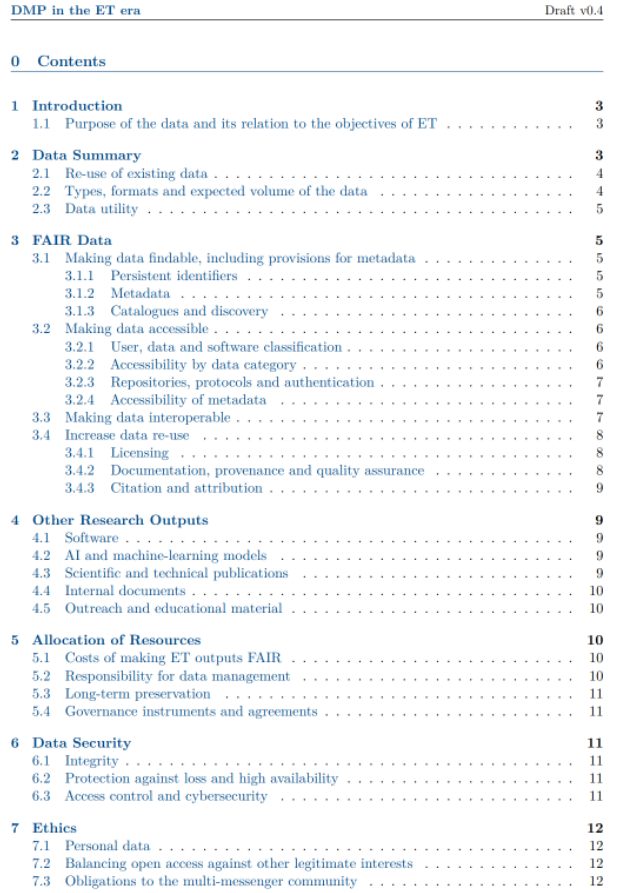
FAIR-by-design ET Data

Data Management Plan

Einstein Telescope

HE template from the European Commission
FAIR principles oriented
Full data lifecycle, including software and AI models, and beyond the duration of the ET activities.

Live document – many open points
To be completed in the next years.



DMP in the ET era Draft v0.4

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Einstein Telescope
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FAIR Implementation Profile (FIP)

A FIP records the standards, tools, and resources a community chooses to make its data and services truly FAIR. It is the bridge between the FAIR principles and real-world implementation.

Box 2 | The FAIR Guiding Principles

To be Findable:
F1. (meta)data are assigned a globally unique and persistent identifier
F2. data are described with rich metadata (defined by R1 below)
F3. metadata clearly and explicitly include the identifier of the data it describes
F4. (meta)data are registered or indexed in a searchable resource

To be Accessible:
A1. (meta)data are retrievable by their identifier using a standardized communications protocol
A1.1 the protocol is open, free, and universally implementable
A1.2 the protocol allows for an authentication and authorization procedure, where necessary
A2. metadata are accessible, even when the data are no longer available

To be Interoperable:
I1. (meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
I2. (meta)data use vocabularies that follow FAIR principles
I3. (meta)data include qualified references to other (meta)data

To be Reusable:
R1. meta(data) are richly described with a plurality of accurate and relevant attributes
R1.1. (meta)data are released with a clear and accessible data usage license
R1.2. (meta)data are associated with detailed provenance
R1.3. (meta)data meet domain-relevant community standards

- Choices
- Challenges



Optimization of FIPs
- Maximize Reuse
- Maximize Interoperation

Data Access Policy, DMP and Implementation Guidelines

FAIR-by-design ET Data

Einstein Telescope
Data Access Policy
Implementation Guidelines

FAIR principles

FIP records
GW Community

Supporting and enabling resources
(FSR and FER)

ET Data Management Plan
Data, software, models, papers,
…

FAIR infrastructure identifiers,
metadata, registries, provenance,
APIs, licensing

FAIR ET data and services

Status

Deadline: November 2026
Review of the 3 documents: DONE

Next steps: editorial improvement and internal coherence according to feedback and comments from the reviewers

Conclusions

We have set the basis to carry on a FAIR by design plan for ET data

Coherent with the current standards and lessons learned

Activity will continue within the EiB

ET-COMPASS DMP and guidelines