



# Turning FAIR Data into Reality Interim Report and Action Plan

**EOSC Summit 2018**

**European Commission Expert Group on FAIR Data**

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# Report framework

1. Concepts – why FAIR?
2. Creating a culture of FAIR data
3. Creating a technical ecosystem for FAIR data
4. Skills and capacity building
5. Measuring change
6. Funding and sustaining FAIR data
7. FAIR Data Action Plan

# Primary recommendations and actions

**Step 1: Define and apply FAIR appropriately**

**Step 2: Develop and support a sustainable FAIR data ecosystem**

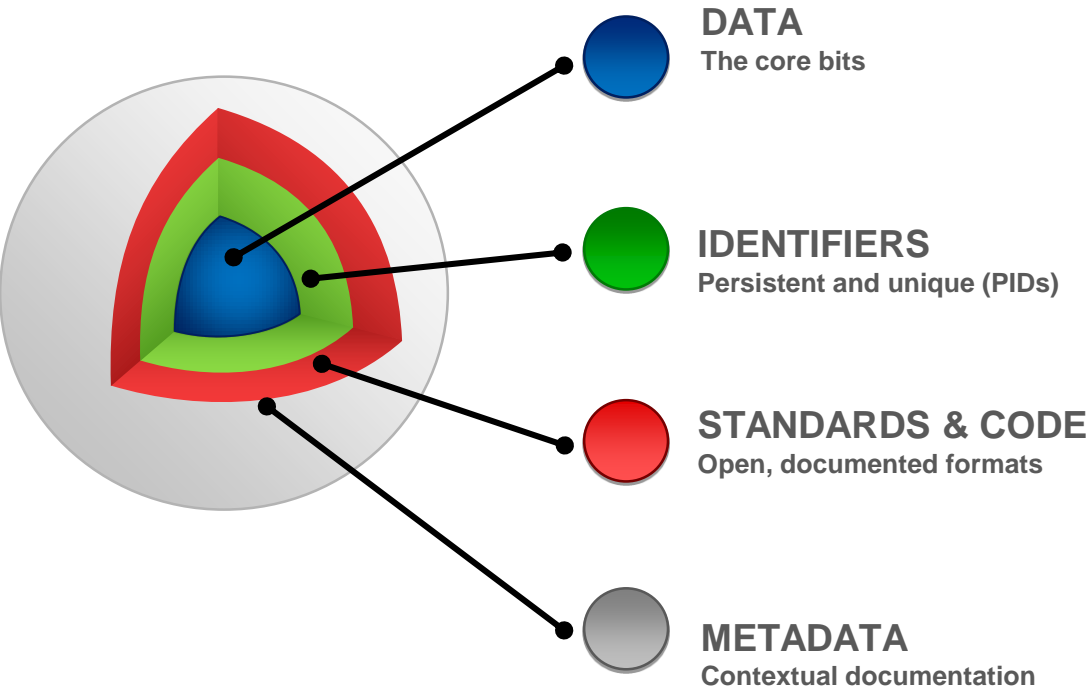
**Step 3: Ensure FAIR data and certified services to support FAIR**

**Step 4: Embed a culture of FAIR in research practice**

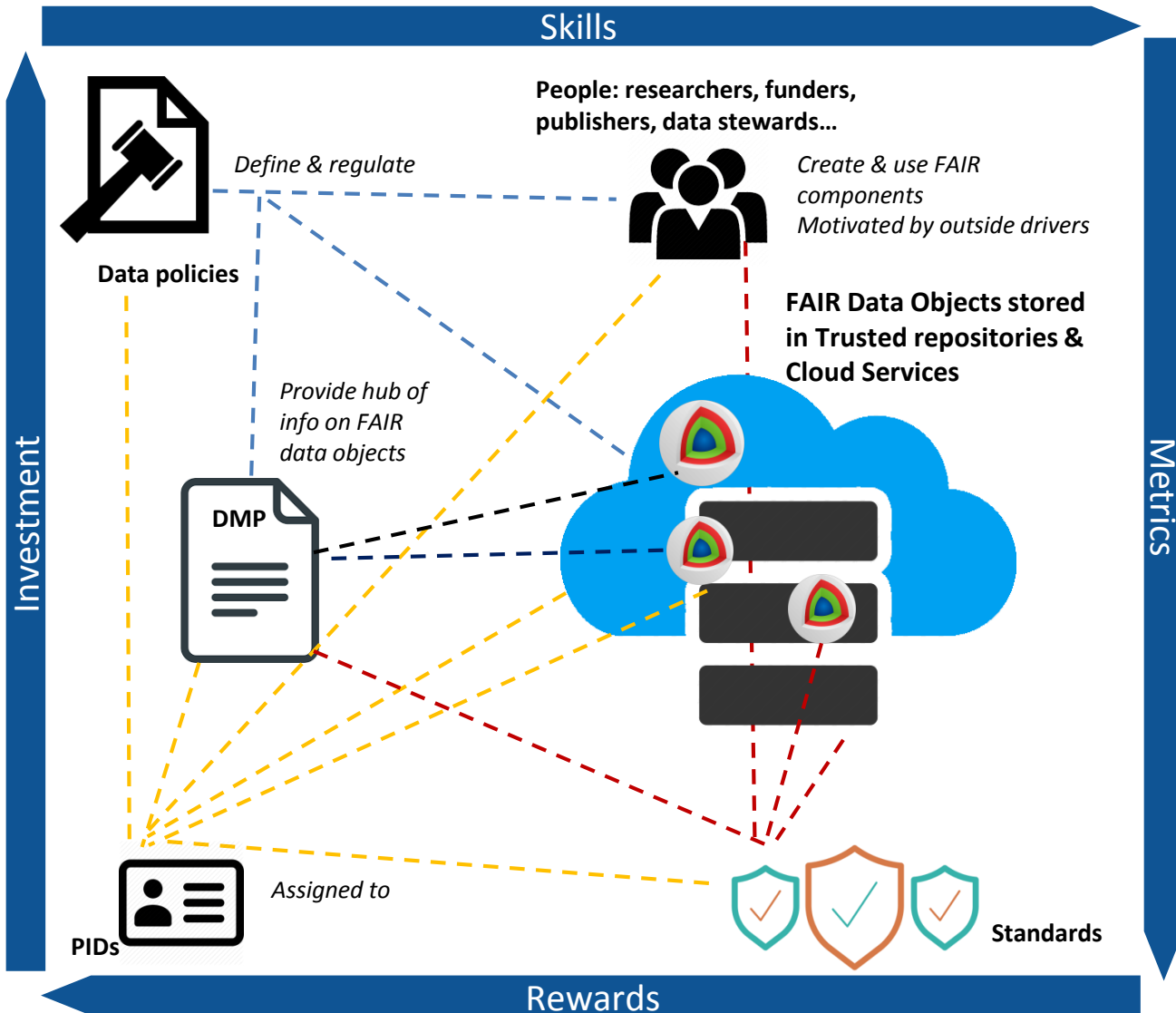
## Step 1: Define and apply FAIR appropriately

1. **Definitions of FAIR:** FAIR is not limited to its four constituent elements: it must also comprise appropriate openness, the assessability of data, long-term stewardship, and other relevant features. To make FAIR data a reality, it is necessary to incorporate these concepts into the definition of FAIR.
2. **Mandates and boundaries for Open:** The Open Data mandate for publicly funded research should be made explicit in all policy. It is important that the maxim 'as Open as possible, as closed as necessary' be applied proportionately with genuine best efforts to share.

# FAIR Data Objects



- 3. A model for FAIR Data Objects:** Implementing FAIR requires a model for FAIR Data Objects which by definition have a PID linked to different types of essential metadata, including provenance and licencing. The use of community standards and sharing of code is also fundamental for interoperability and reuse.



## Step 2: Develop and support a sustainable FAIR data ecosystem

- Components of a FAIR data ecosystem:** The realisation of FAIR data relies on, at minimum, the following essential components: policies, DMPs, identifiers, standards and repositories. There need to be registries cataloguing each component of the ecosystem and automated workflows between them.

**Supported by cultural aspects: skills, metrics, rewards, investment.**

# Primary recommendations and actions

## Step 1: Define and apply FAIR appropriately

Rec. 1: Definitions of FAIR

Rec. 2: Mandates and boundaries for Open

Rec. 3: A model for FAIR Data Objects

## Step 2: Develop and support a sustainable FAIR data ecosystem

Rec. 4: Components of a FAIR data ecosystem

Rec. 5: Sustainable funding for FAIR components

Rec. 6: Strategic and evidence-based funding

## Step 3: Step 3: Ensure FAIR data and certified services to support FAIR

Rec. 7: Disciplinary interoperability frameworks

Rec. 8: Cross-disciplinary FAIRness

Rec. 9: Develop robust FAIR data metrics

Rec. 10: Trusted Digital Repositories

Rec. 11: Develop metrics to assess and certify data services

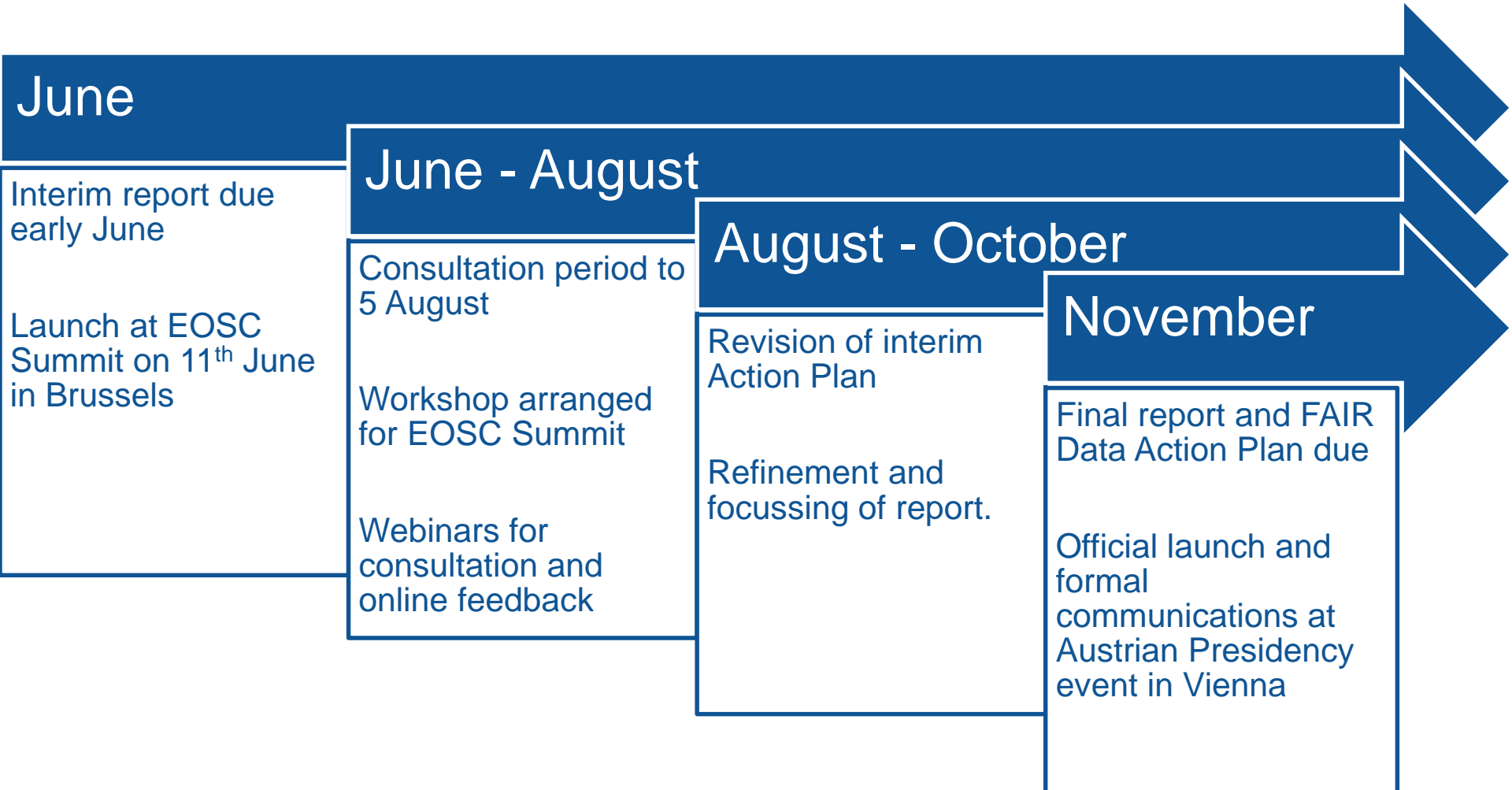
## Step 4: Embed a culture of FAIR in research practice

Rec. 12: Data Management via DMPs

Rec. 13: Professionalise data science and stewardship roles

Rec. 14: Recognise and reward FAIR data and FAIR stewardship

# FAIR Data EG: Timescale





## Next steps...

- Interim FAIR Data Action Plan: <https://doi.org/10.5281/zenodo.1285290>
- Interim FAIR Data Report: <https://doi.org/10.5281/zenodo.1285272>
- Comment on Report: [http://bit.ly/interim\\_FAIR\\_report](http://bit.ly/interim_FAIR_report)
- Comment on Action Plan: <https://github.com/FAIR-Data-EG/Action-Plan>

# FAIR Data EG: membership



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# Thank you!

# Questions?

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