

FAIR & GO FAIR

2018 Netherlands Roundtable Meeting

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Utrecht

<https://orcid.org/content/2018-netherlands-roundtable-meeting>

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**“Data and services that are
findable,
accessible,
interoperable,
re-usable
both for machines and for people.”**

The FAIR Guiding Principles for scientific data management and stewardship,
Scientific Data (2016), <https://www.nature.com/articles/sdata201618>

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15 FAIR Principles

Findable:

F1 (meta)data are assigned a globally unique and persistent identifier;

F2 data are described with rich metadata;

F3 metadata clearly and explicitly include the identifier of the data it describes;

F4 (meta)data are registered or indexed in a searchable resource;

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;

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;

Reusable:

R1 meta(data) are richly described with a plurality of accurate and relevant attributes;

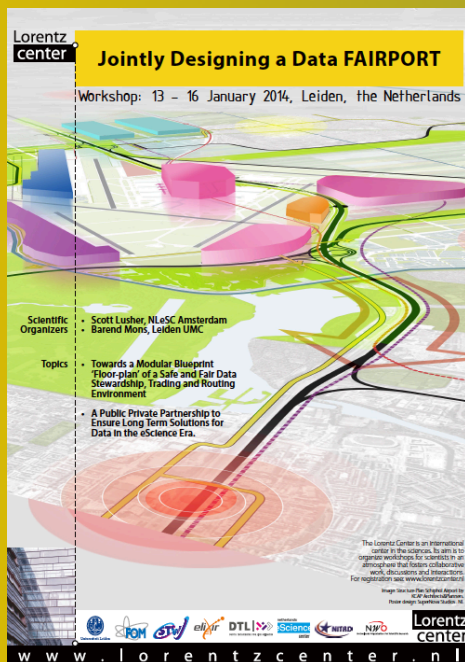
R1.1 (meta)data are released with a clear and accessible data usage license;

R1.2 (meta)data are associated with detailed provenance;

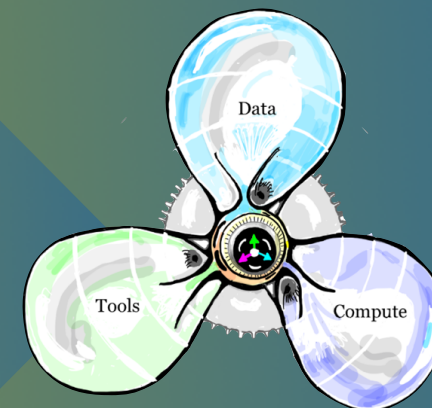
R1.3 (meta)data meet domain-relevant community standards;

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Lorentz



IFDS



Birth

2014

Infancy

2015

2016

Adolescence

2017

2018...

Maturity

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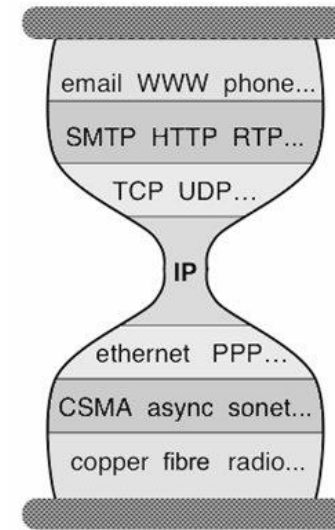
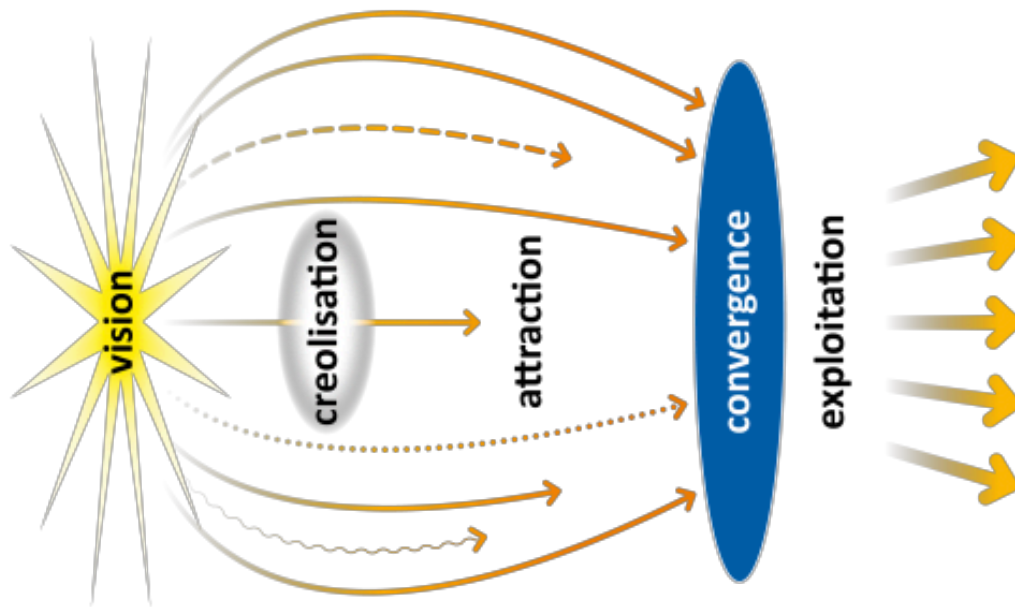
Common Patterns in Revolutionary Infrastructures and Data

Peter Wittenburg, Max Planck Computing and Data Facility

George Strawn, US National Academy of Sciences

February 2018

https://www.rd-alliance.org/sites/default/files/Common_Patterns_in_Revolutionising_Infrastructures-final.pdf



- **Minimal standards**
- **Voluntary**
- **Critical Mass**

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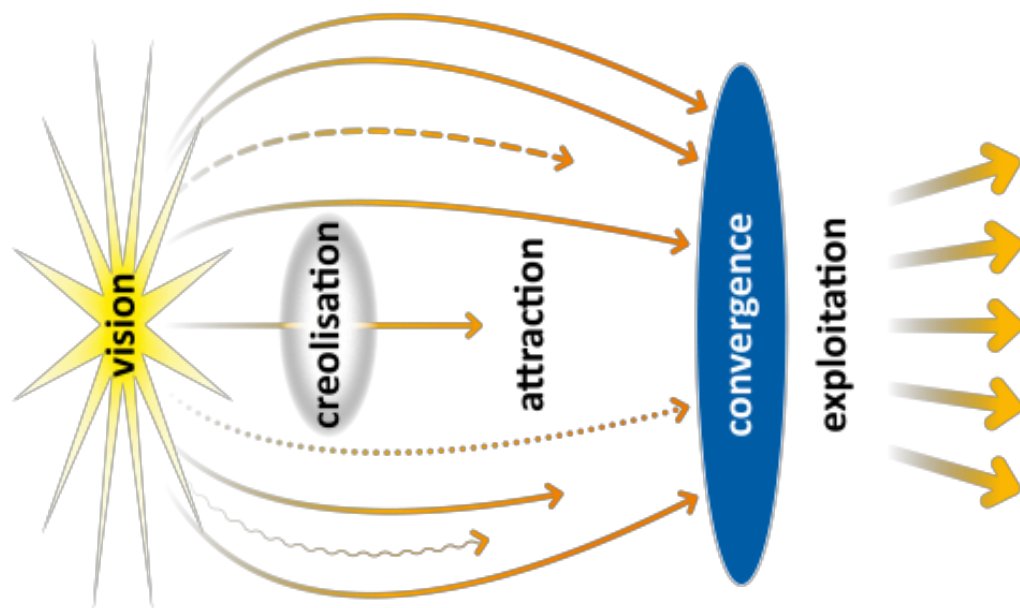
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Infrastructures

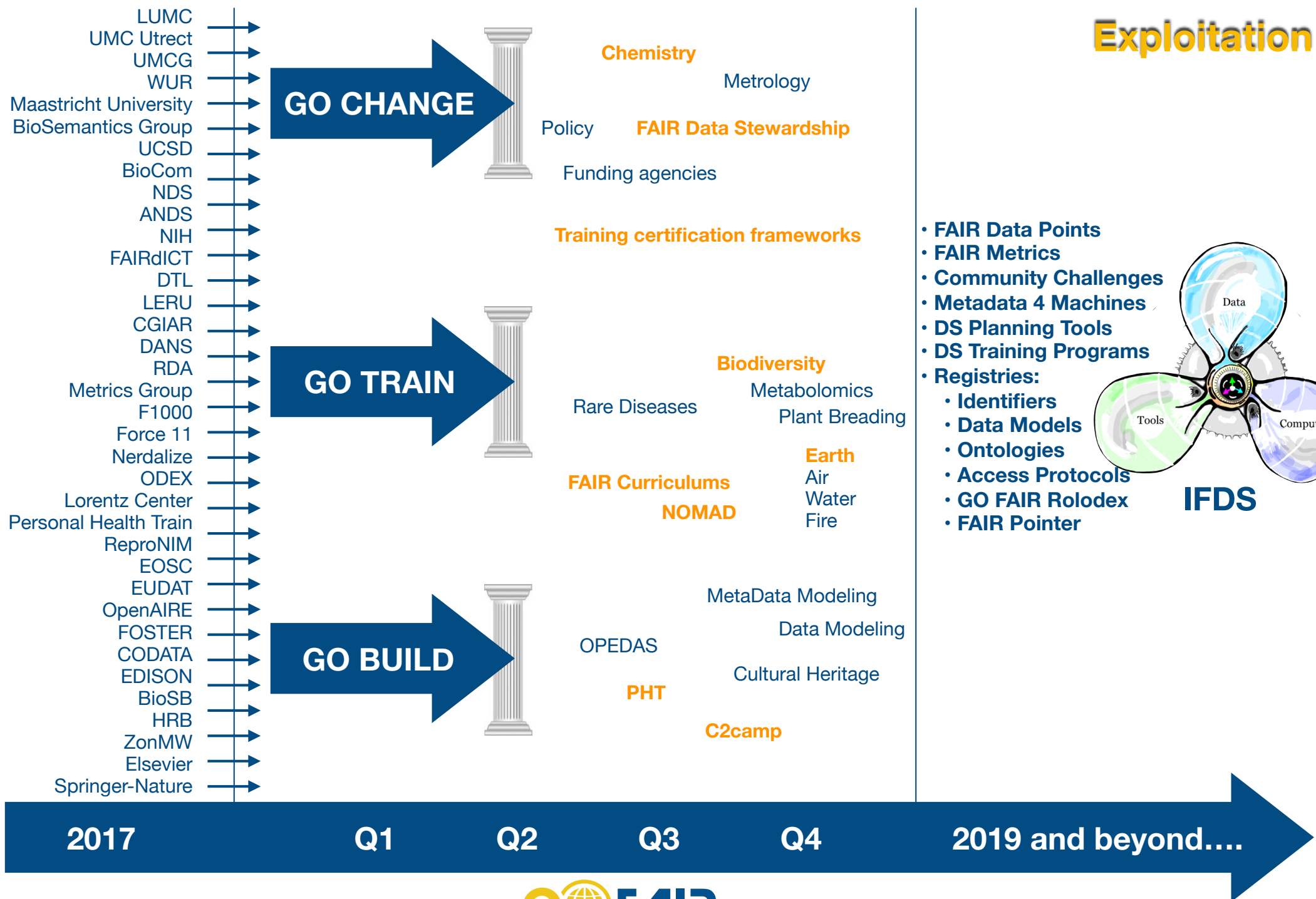
	Internet	WWW	IFDS
Objects	networks	webpages	data
Identifiers	Internet adresses	URLs	PID
Protocols	TCP/IP	HTTP	DOIP

Creolization

Attraction

Convergence

Exploitation



Creolization

Attraction

Convergence

Exploitation

