



Grant Agreement: 760940



MASTRO

Nanosafety Cluster
Working Group F – Data Management

WG Monthly Meeting
Tuesday 4 September, 2018

Andreas Gondikas, Project Manager



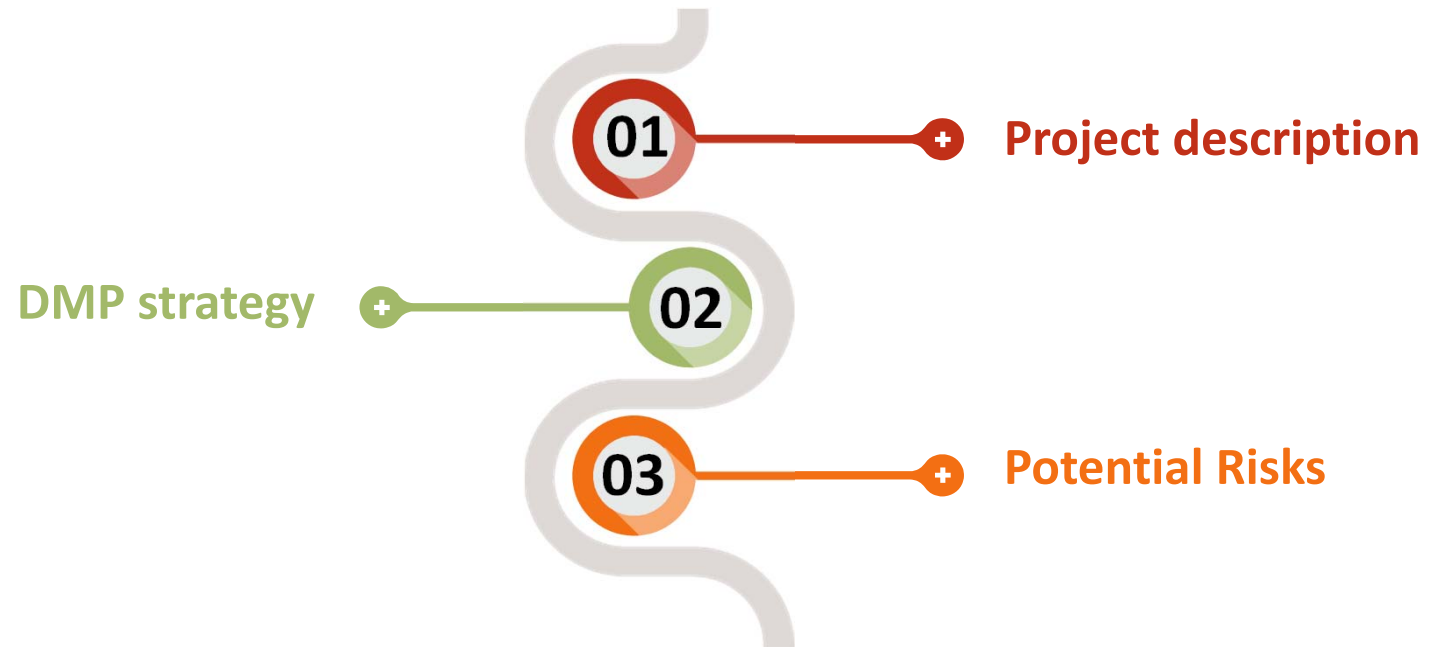
www.mastro-h2020.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N°760940.



Outline

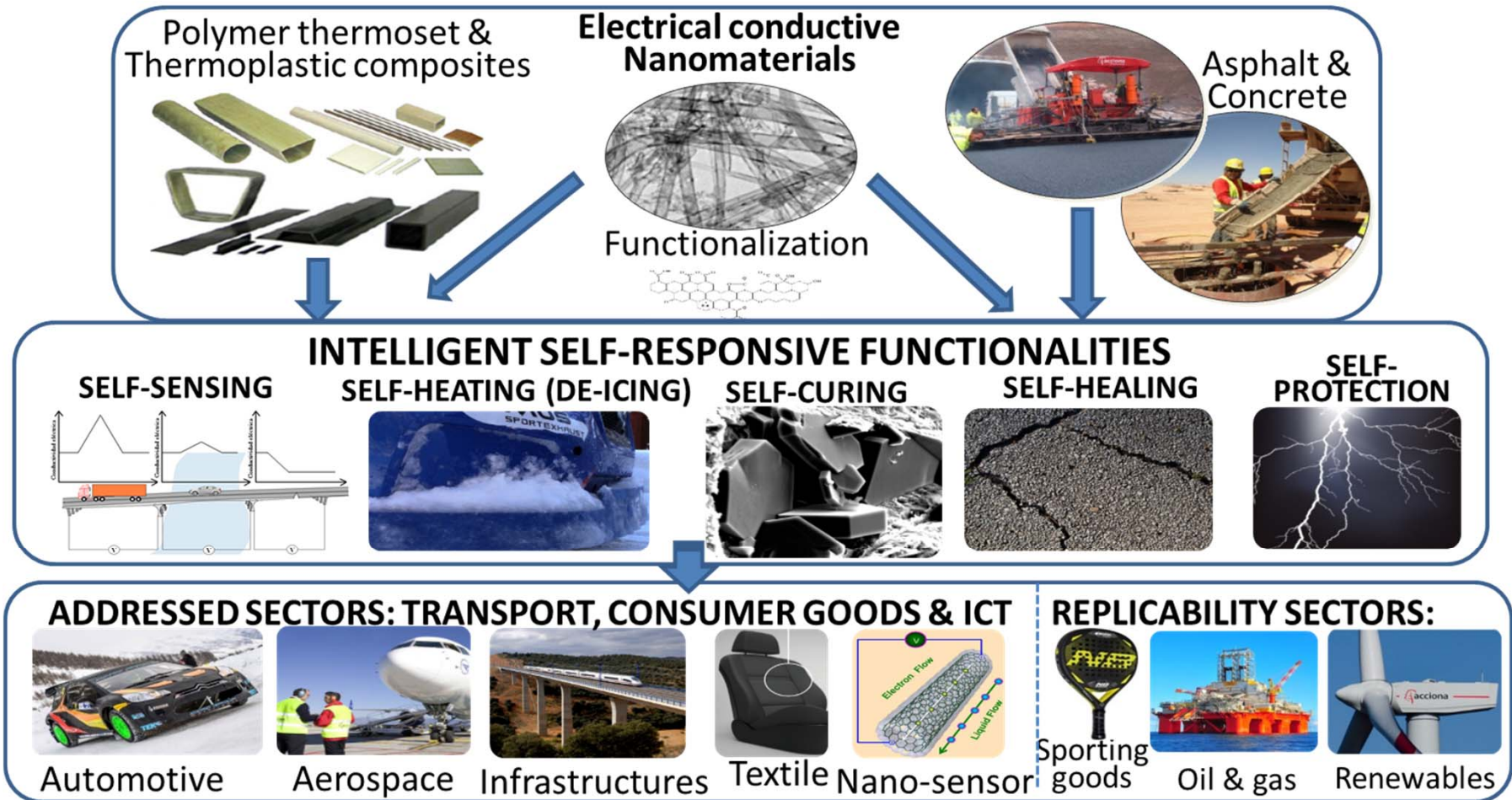




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Project description

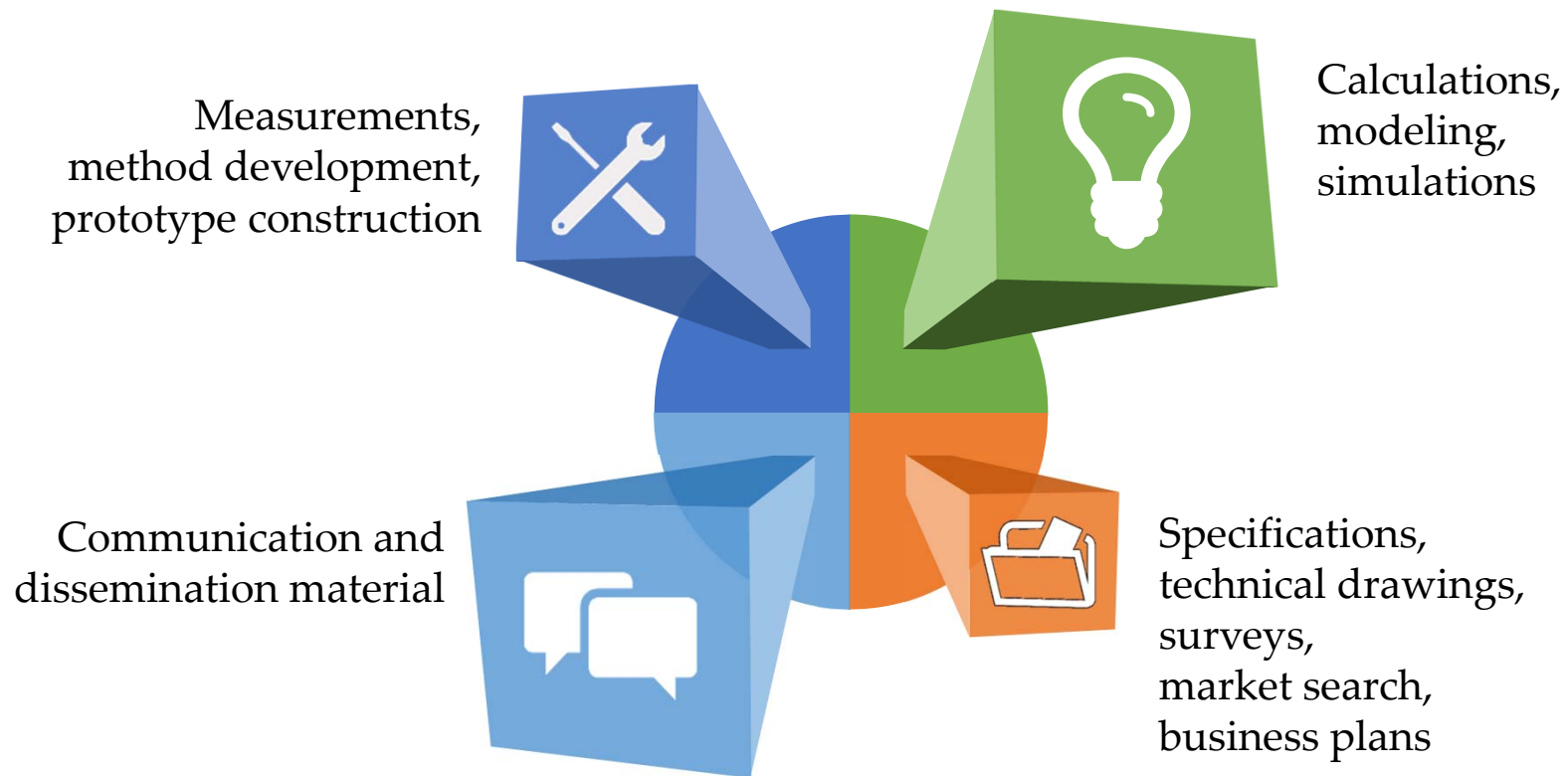




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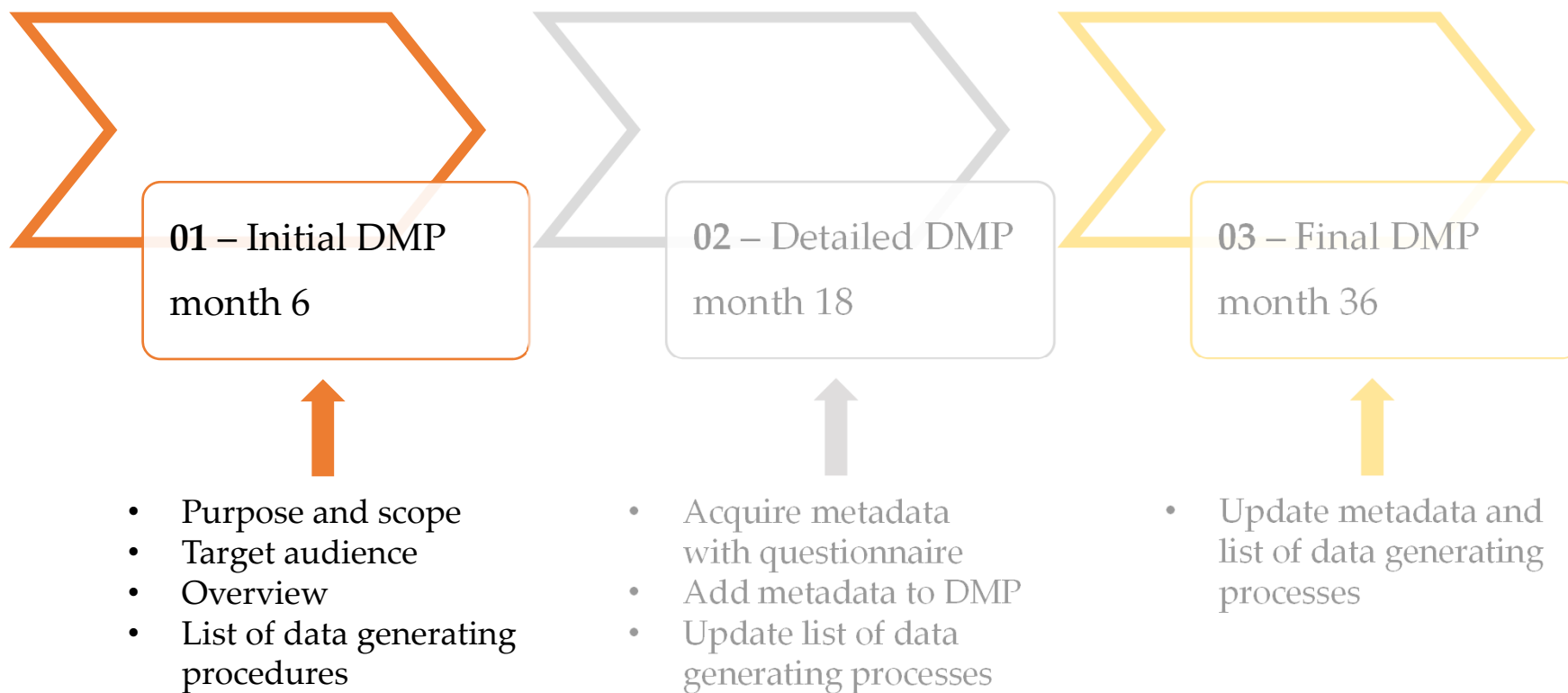


Project description





DMP strategy





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DMP strategy

Data generating procedures

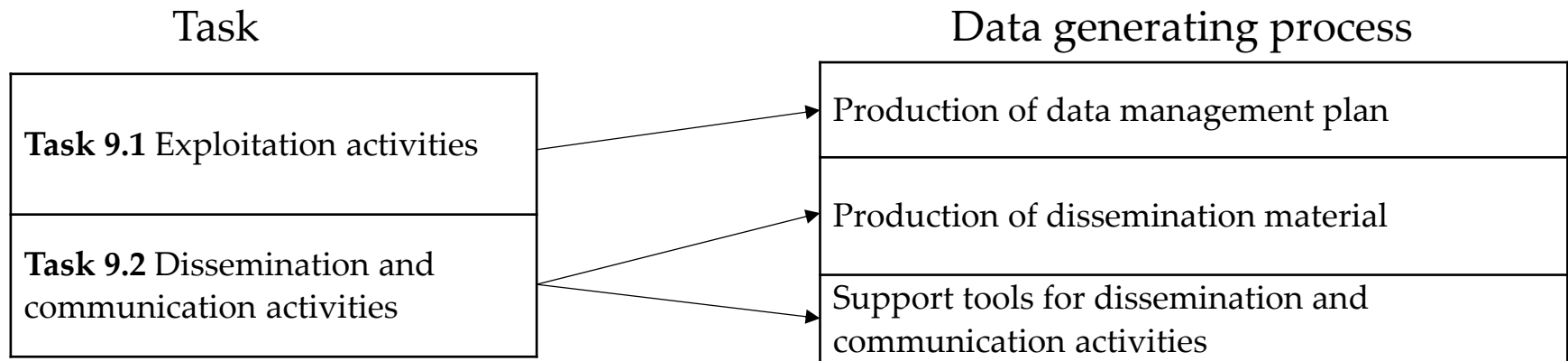
- Experiments
- Methodologies
- Surveys
- Creation of plans, materials, ideas (brainstorming)
- Simulations
- other....





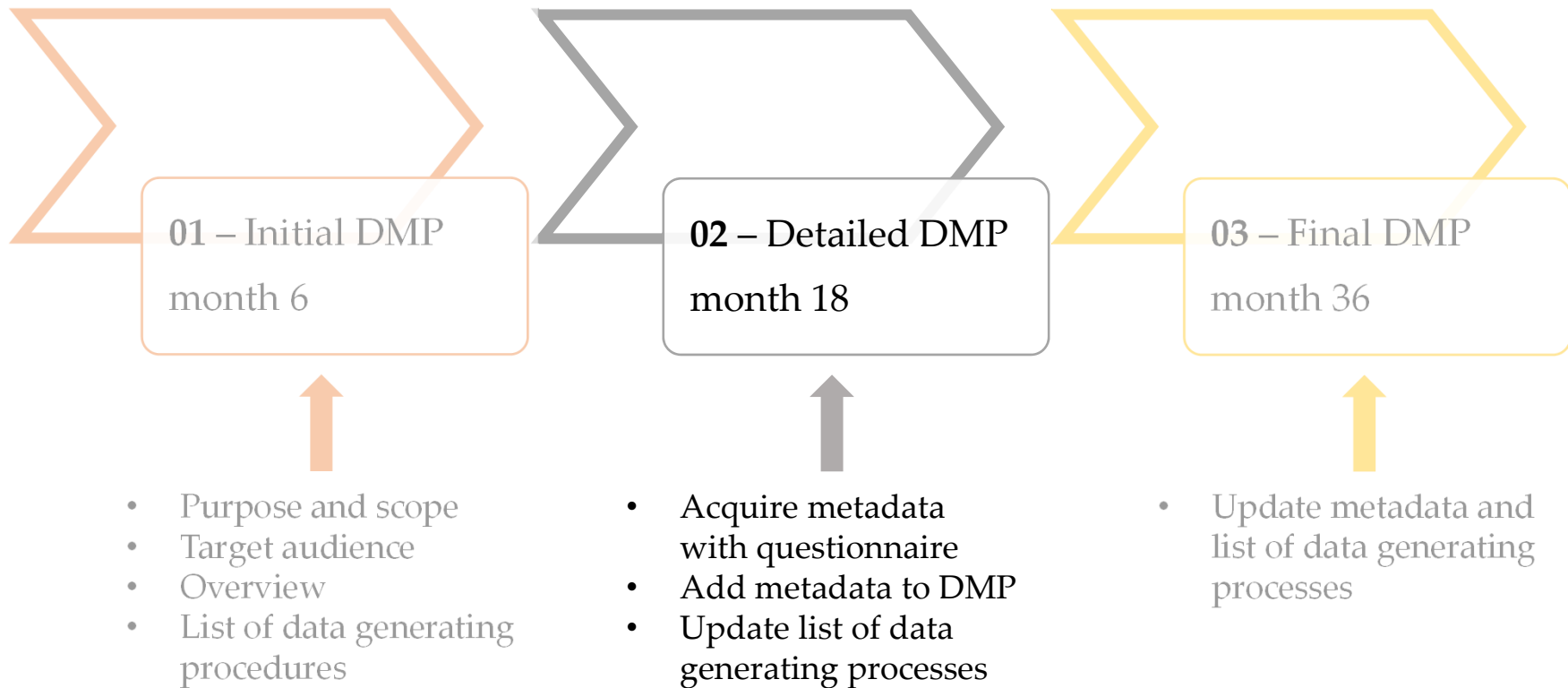
DMP strategy

Example of data generating procedures





DMP strategy





DMP strategy - metadata principles

1. Metadata is for
 - description and discovery,
 - contextualisation (relevance, quality, restrictions)
 - coupling users, software, and computing resources to data (to provide a Virtual Research Environment)
2. Management metadata is also relevant (research proposal, funding, project information, research outputs, outcomes, impact...)
3. Metadata must be human and machine understandable





DMP strategy - metadata collection

Findable

–Assign persistent IDs, provide metadata, register in a searchable resource

Metadata standards: <http://rd-alliance.github.io/metadata-directory>

Accessible

–Retrievable by their ID using a standard protocol, metadata remain accessible even if data aren't...

Interoperable

–Use formal, broadly applicable languages and vocabularies

Reusable

–Rich metadata, clear licences, provenance, use of community standards

http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf





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DMP strategy - questionnaire

Project title: MASTRO

Grant number: 760940



Source of data

Institution:

Name:

e-mail:

Please provide a name for this dataset:





DMP strategy

Data summary

- i. Purpose of the data collection/generation
- ii. Relation to project objectives
- iii. Types and formats of data
- iv. Reuse of existing data
- v. Expected size of the data (MB, GB, ...)
- vi. Data utility: to whom might it be useful





DMP strategy

FAIR data

2.1 Making data **findable**:

- i. Outline the identifiability of data
e.g. CERIF (for help visit: <http://rd-alliance.github.io/metadata-directory/>)
- ii. Outline naming conventions used
e.g. "MASTRO-<WPX>-<Type>-<Description>-<Version>.<ext>"
- iii. Outline the approach towards search keyword
e.g. keywords according to the objective, application, and techniques
- iv. Outline the approach for clear versioning
e.g. v001, v002, ..., final





DMP strategy

FAIR data

2.2 Making data openly **accessible**:

- i. Specify which data will be made openly available? If not provide rationale
- ii. Specify how the data will be made available
e.g. open access or institutional repositories
- iii. Specify repository
for help visit: <https://www.openaire.eu/>
- iv. Specify methods or software tools needed to access the data
e.g. Microsoft Excel, MatLab, PhotoShop, or ImageJ





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DMP strategy

FAIR data

2.3 Making data **interoperable**:

- i. Assess the interoperability of your data.
- ii. Specify whether you will be using standard vocabulary, to allow inter-disciplinary interoperability?

For example: <http://specs.enanomapper.net/oecd/>





DMP strategy

FAIR data

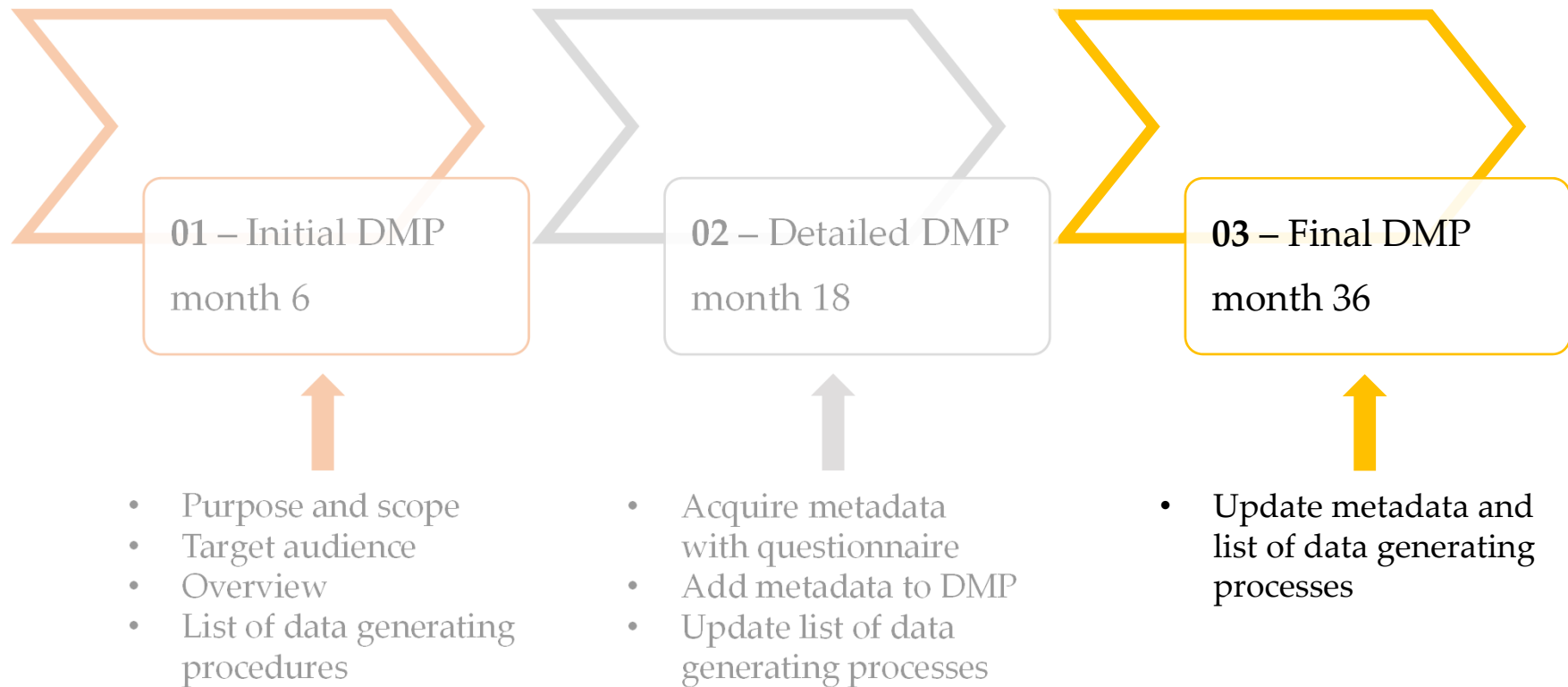
2.4 Increase data **re-use** (through clarifying licenses):

- i. Specify how the data will be licensed to permit the widest reuse possible
- ii. Specify when the data will be made available for re-use. If applicable, specify why and for what period a data embargo is needed
- iii. Is the data useable by third parties, in particular after the end of the project?
- iv. Describe data quality assurance processes (e.g. the quality assurance plan of the MASTRO project or of an industrial organization will be followed)





DMP strategy





Potential risks

Risks	Solutions
Partner incentives to allocate the time and effort in a new type of process	<ul style="list-style-type: none">• Part of the DoW• Long-term gain for science
Definition of metadata	<ul style="list-style-type: none">• Keywords (?)• Data used for documentation purposes• Ontology





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