Second ITU Workshop on Data Processing and Management for IoT and Smart Cities & Communities
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Introduction to the workshop roundtable

Marco Carugi

FG-DPM D1.1 Champion

SG20 Mentor, Consultant

marco.carugi@gmail.com

Workshop roundtable

Official objective:

- This session will discuss the engagement of different stakeholders in the activities of the FG-DPM

Personal considerations from the moderator:

- This roundtable is intended to be an operational session, open to all participants; please raise your views and suggestions as all of them might be helpful
- The exchanges will hopefully help the progress and the workplan of FG-DPM, including activities at this meeting (ad-hoc team and WGs' sessions) and action items for future physical and electronic activities.

POST-MEETING NOTE – Input received during the roundtable are collected in this same presentation via text in red colour

Proposal of topics for the roundtable

- **Views from the leadership team of each WG**
  - including where we are, current issues, what to do (priorities, key action points and general workplan), collaborations (within FG and with outside)
- **Views from other participants (incl. vendors, providers, governmental entities, SDOs and Alliances, others)**
- **Participants' inputs on some specific issues such as**
  - ad hoc team on global picture of DPM capabilities (capability view, WGs roles)
  - data models, key DPM concepts and terminology
  - use cases (harmonization, representativeness]
  - FG-DPM deliverables (consistency, consolidation)
  - efficient/realistic collaborations with other expert groups such as SDOs and Alliances [e.g. RDA, BDVA, AI related initiatives]
  - other issues from the floor

Roundtable (1)

- **Views from the leadership team of each WG**

  where we are, current issues, what to do (priorities, key action points and general workplan), collaborations (within FG and with outside)

  - WG1 (and hoc-team) – *Marco – current issues: extracting in harmonized way reqts & capabs from use cases, finalizing limited set of key DPM concepts & terms*
  - WG3 – *Liangliang – WG addressing data interoperability and data sharing*
  - WG4 – *Robert - WG addressing data governance, privacy, risk mgt, security and reliability; needed a consistent view with the other WGs*
  - WG5 – *Okan – WG addressing data value chain and stakeholders, data pricing, business models, data economy, regulatory and policy implications, impacts according to 3 dimensions; collaboration with WG1/ WG4 would be beneficial*
  - WG2 – *Gyu Myoung – the DPM framework development requires collaboration with the other WGs; (comment not only for WG2) need to have well in mind the role of the FG-DPM products with respect to concrete standards and solutions*

Roundtable (2)

- **Views from other participants (incl. vendors, providers, governmental entities, SDOs and Alliances, others)**
  - Comments, issues, suggestions on what to do (priorities, key action points and general workplan), collaborations

NOTE - On collaboration matters, RDA presentations have already highlighted potential topics: (domain of components for DOA-based infrastructures), core data model and terminology

- Input from RDA: the above matters (in NOTE), dynamic data, concept of data collection; it is needed to identify what specific goals can be realistically achieved in terms of collaboration
- Input from Bizerte SC project: to consider relation between DPM capabilities and KPIs (KPIs are key for concrete IoT and SC developments)
- Input from KIT on collaboration with other SDOs: shared views among FG and SDOs are needed for good collaboration (e.g. use case format)

Roundtable (3)

- **Participants' inputs on some specific issues such as**
  - ad hoc team on global picture of DPM capabilities (capability view, the role of each WG)
  - data models, key DPM concepts and terminology
  - use cases (harmonization among them, representativeness of those collected so far)
  - FG-DPM deliverables (cross-deliverables consistency, consolidation)
  - efficient collaborations with other expert groups such as SDOs and Alliances
  - other issues from the floor
    - Q: Is convergence between different technologies addressed in the FG?

      A: The FG work doesn't intend to discuss in detail specific technologies and their convergence, it is focused on the level of the capabilities required by a DPM infrastructure.

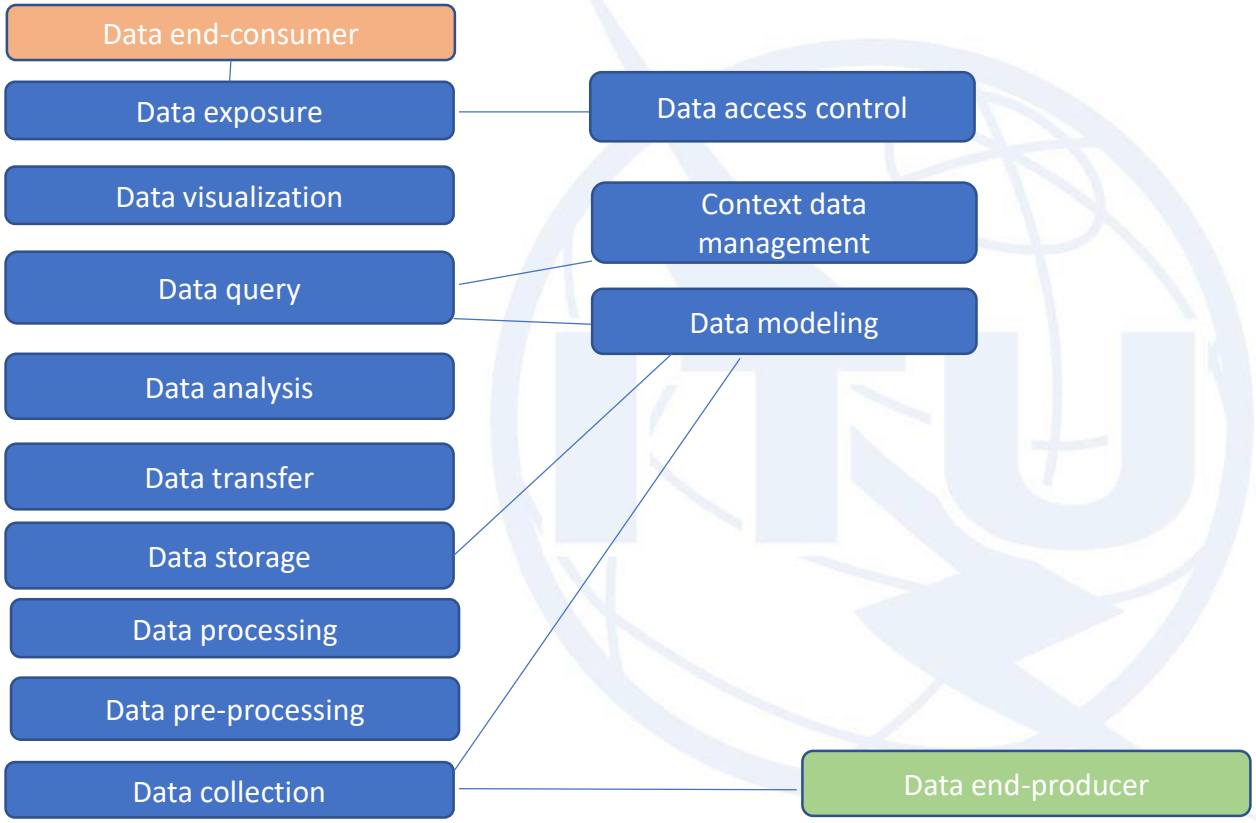
Backup slides: some relevant reminders

[based on the FG-DPM Chairman's presentation at the workshop or work progressed so far]

The ad-hoc team on “Global picture of DPM capabilities”

- Will develop a comprehensive picture of the main common DPM capabilities
  - which are judged necessary to support the use cases identified by the FG-DPM, including the interactions internal to the capability set and the interactions with the main (input and output) entities external to the capability set.
- The picture is expected to summarize the key macro-functionalities for the support of the use cases identified by WG1 and be an essential input for the full development of the DPM framework study in progress within WG2, taking into account - as applicable and at their greatest extent – the capability-related studies progressed by WG3, WG4 and WG5.

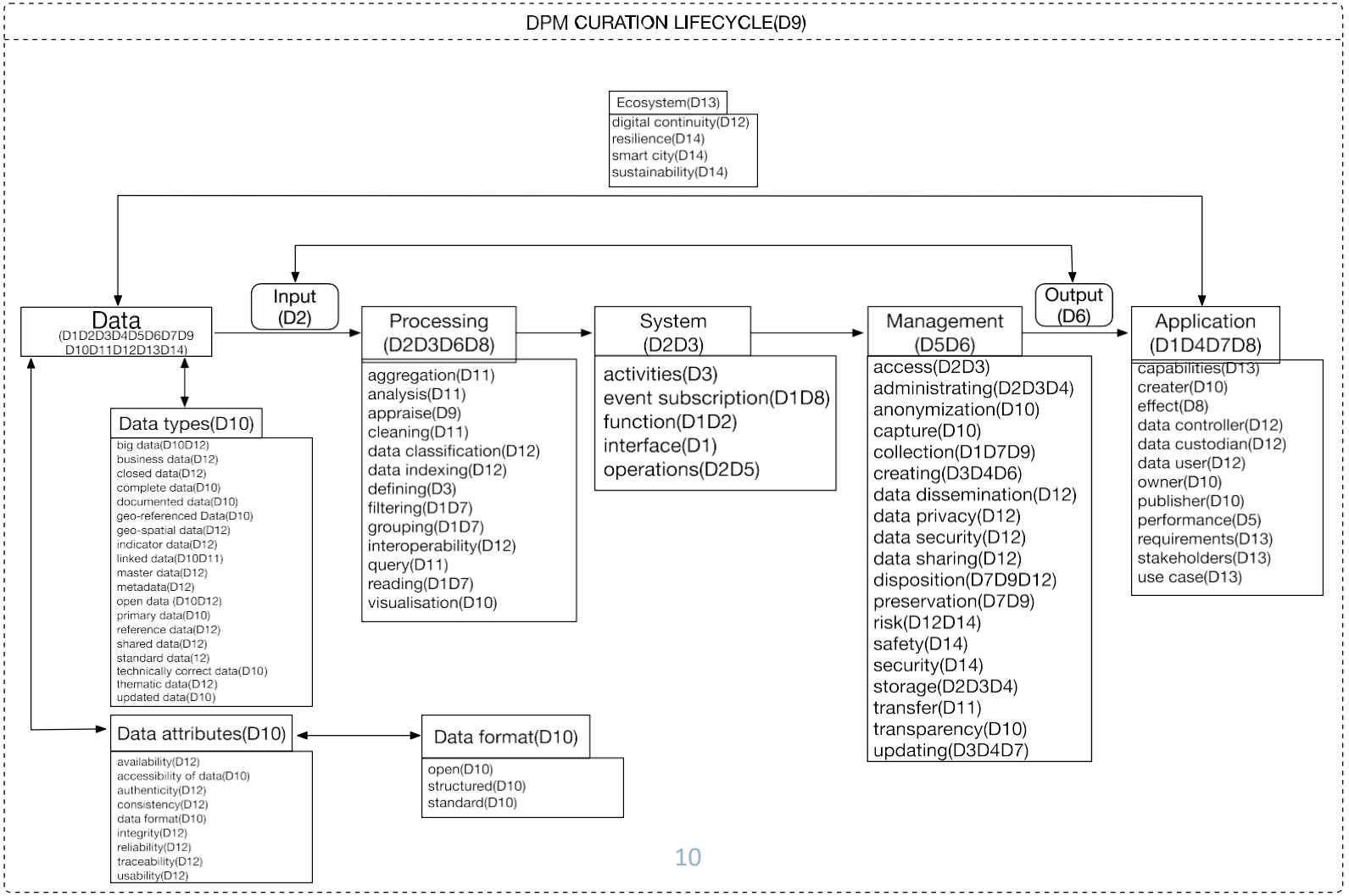
Early draft of the DPM capabilities global picture - from brainstorming at last FG-DPM meeting



NOTE - It was also agreed to consider the development of complementary pictures providing examples of horizontal and vertical DPM capabilities chaining

For other details of the last FG-DPM meeting discussion, please see Appendix V of FG-DPM O-078 (O-078 is the last version of D1.1)

Ongoing work on Taxonomy from perspectives of data ecosystem model based on integration of digital continuity model and lifecycle model – discussion expected at Tunis meeting based on new input I-201



FG-DPM: Focus group structure

WG	Title	Chair
WG1	**Use Cases, Requirements and Applications/Services**	Mr Martin Brynskov (Open and Agile Smart Cities Initiative)
WG2	**DPM Framework, Architectures and Core Components**	Mr Steve Liang (OGC), Mrs Hakima Chaouchi (Telecom SudParis)
WG3	**Data sharing, Interoperability and Blockchain**	Mrs Liangliang Zhang (Huawei)
WG4	**Security, Privacy and Trust including Governance**	Mr Robert Lewis-Lettington (UN-HABITAT)
WG5	**Data Economy, commercialization, and monetization**	Mr Okan Geray (Smart Dubai), Mr Abdulhadi AbouAlmal (Etisalat)

FG-DPM Deliverables (1)

Deliverable	Title	Output document
D0.1	TS - "Data Processing and Management for IoT and Smart Cities and Communities: Vocabulary"	FG-DPM-O-072
D1.1	TS - "Use Cases Analysis and General Requirements for DPM"	FG-DPM-O-078
D3.3	TR - "Framework to support data interoperability in IoT environment"	FG-DPM-O-075
D3.5	TS - "Overview of Blockchain for supporting IoT and SC&C in DPM aspects"	FG-DPM-O-073
D3.6	TS - "Blockchain-based data exchange and sharing technology"	FG-DPM-O-074
D4.1	TR - "Framework of Security and Privacy in DPM"	FG-DPM-O-067
D4.3	TS - "Technical Enablers for Trusted Data"	FG-DPM-O-071
D4.4	TR - "Data quality management for trusted data"	FG-DPM-O-065
D4.5	TS - "Data Governance Framework for IoT and SC&C"	FG-DPM-O-066
D4.6	TS - "Risk Management in DPM for IoT and smart cities"	FG-DPM-O-064
D5.1, D5.2, D5.3, D5.4	TS - "Data Economy Impact, Commercialization and Monetization"	FG-DPM-O-069

TS: Technical Specification, **TR**: Technical Report

Output documents of the Cairo meeting

FG-DPM Deliverables (2)

Deliverable	Title	Output document
D2.1	TR - “DPM Framework for Data-driven IoT and SC&C”	FG-DPM-O-045
D2.3.1	TR - “Data format in IoT and smart city”	FG-DPM-O-044
D2.3.2	TR – “Web based Microdata formats for IoT and Smart city”	FG-DPM-O-008
D2.3.3	TR - “Metadata format in IoT and smart city”	FG-DPM-O-009
D3.2	TS - “SensorThings API – Sensing, a cross-domain IoT data model and RESTful API”	FG-DPM-O-018
D3.7	TS - “Blockchain Based Data Management”	FG-DPM-O-054
D4.2	TR - “Privacy Management for DPM in IOT and Smart Cities”	FG-DPM-O-051

TS: Technical Specification, TR: Technical Report
Output documents before the Cairo meeting


ITU