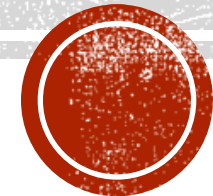


1ST WP2 MEETING

WP2: Needs: identification, of stakeholders, collection
and mapping of stakes



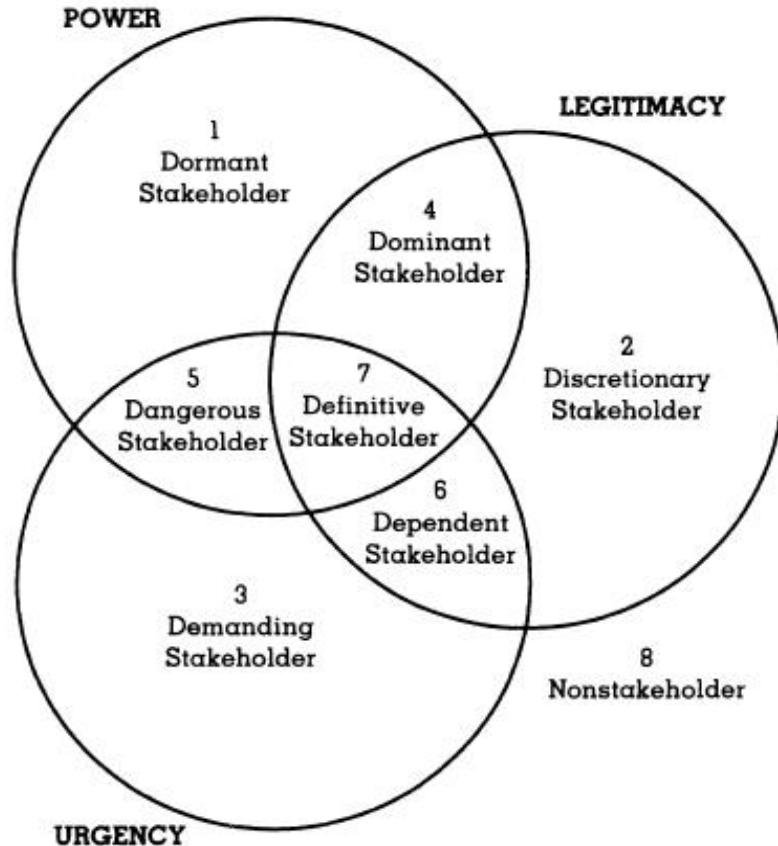
Lorenz Erdmann
WP2 meeting
4 February 2016

WP2 meeting: 8.00-12.00

- **Introduction and scoping (30')**
- **Inception of stakeholders (60')**
- **Inception of stakes (60')**
- **Assessment of gaps & shared understanding of stakes (30')**
- **WP2 planning: T2.2 and T2.3 (60')**
- **Misc.**

- develop a stakeholder ontology (stakeholders are a moving target)
- identify niches that make sense for an RMI capacity (e.g. In relation to EGDI, JRC)
- identify stakes of potential RMI capacity users
- identify hidden stakes
- alignment of stakeholder questions with RMI capacity capabilities
- phasing of other WPs with regard to delivery of WP2

- *“any group or individual who can affect or is affected by achievement of the organisation’s objectives” (Freeman 1984, p. 46).*
- *“individuals or groups that are or perceive themselves as being affected by or interested in the decision-making on a certain issue” (van der Kerkhof 2001, p. 4).*



Critical Systems Thinking (CST) recognises that various stakeholders in society may see situations in radically different ways because different stakeholder values and behavioural characteristics lead to different boundary judgements.

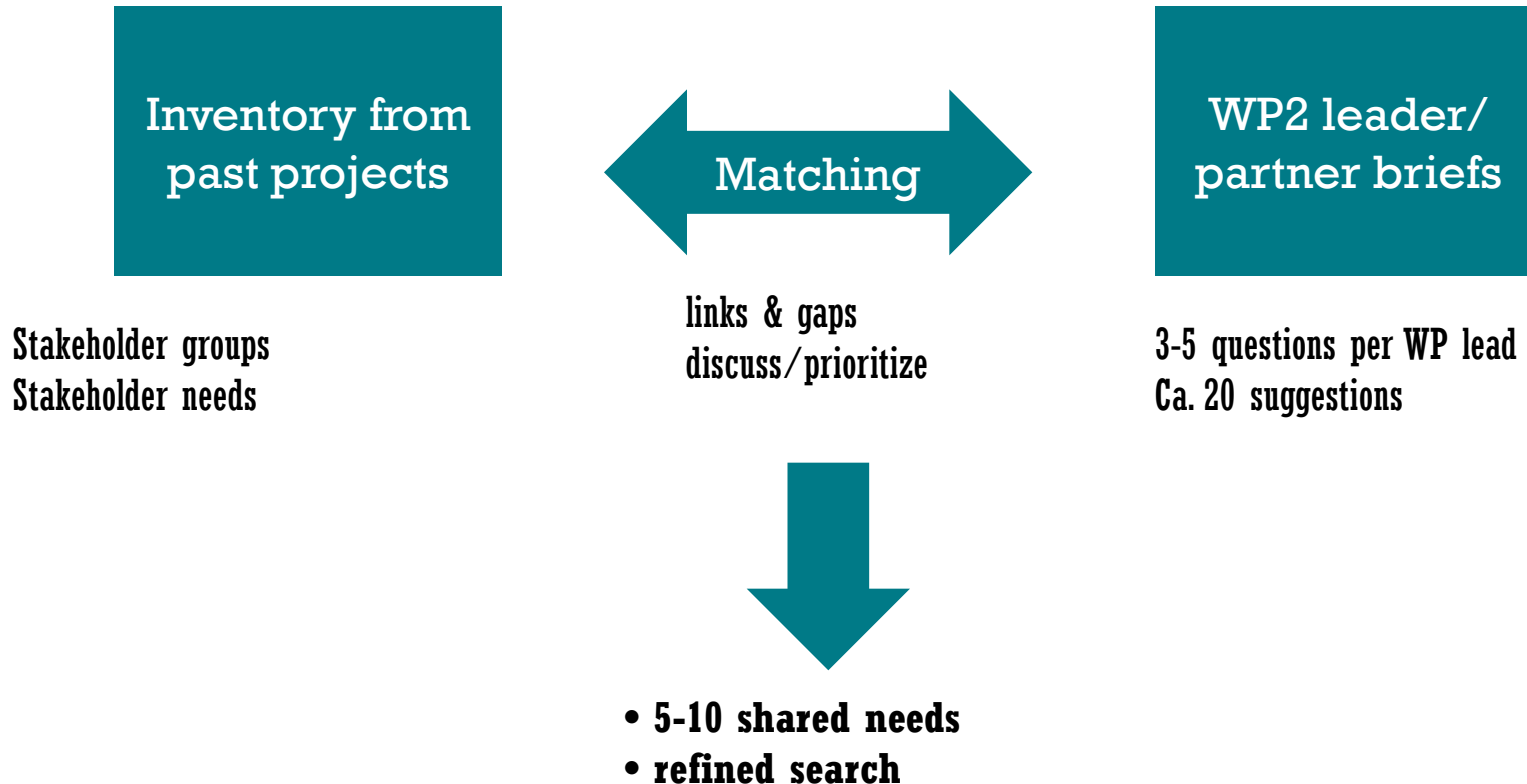
Mitchell et al. 1997

Ulrich 2000

	Duration	Outcome
T2.1: Inception of stakeholder landscape & hypothesis on requirements	M1-M4	Milestone M1
T2.2: Systematic identification & classification of stakeholders	M1-M8	Deliverable D2.1
T2.3: Identification and mapping of stakeholders' RMI needs & requirements	M3-M14	Deliverable D2.2

Aims

- Refine search area more precisely
- Agree on a first set of supposed stakeholder questions



14 PROJECTS: SCOPE I

	deposits	mining and quarrying	manufacturing and use	urban mine	end of life
metal ores	EGDI, EuGeoS, INTRAW, IRP, M4EU, M2020, Minv, ProM	EO, i2Mine, INTRAW, IRP, M4EU, ProM	CRM, EIT, IRP, M4EU, ProM	IRP, ProS	IRP, M4EU, Minv, ProS
industry minerals	EGDI, EuGeoS, INTRAW, M4EU, M2020, Minv, ProM	EO, i2Mine, INTRAW, M4EU, ProM	CRM, EIT, ProM		MInv
construction minerals	EGDI, EuGeoS, M2020, MInv	EO			MInv
ornamental stone	EGDI, EuGeoS				
hydrocarbons	EGDI, EuGeoS, INTRAW	i2Mine, INTRAW			
other: REE	EURare	EURare	EURare		EURare

- dimension stones, hydrocarbons?
- granularity (Si semiconductor, Cu open pit)
- Downstream gaps (e.g. urban mine aggregates, infrastructure)
- Trade and logistics, infrastructure and household production poorly reflected
- consider ISI study: Raw material demand for emerging technologies

Dimensions

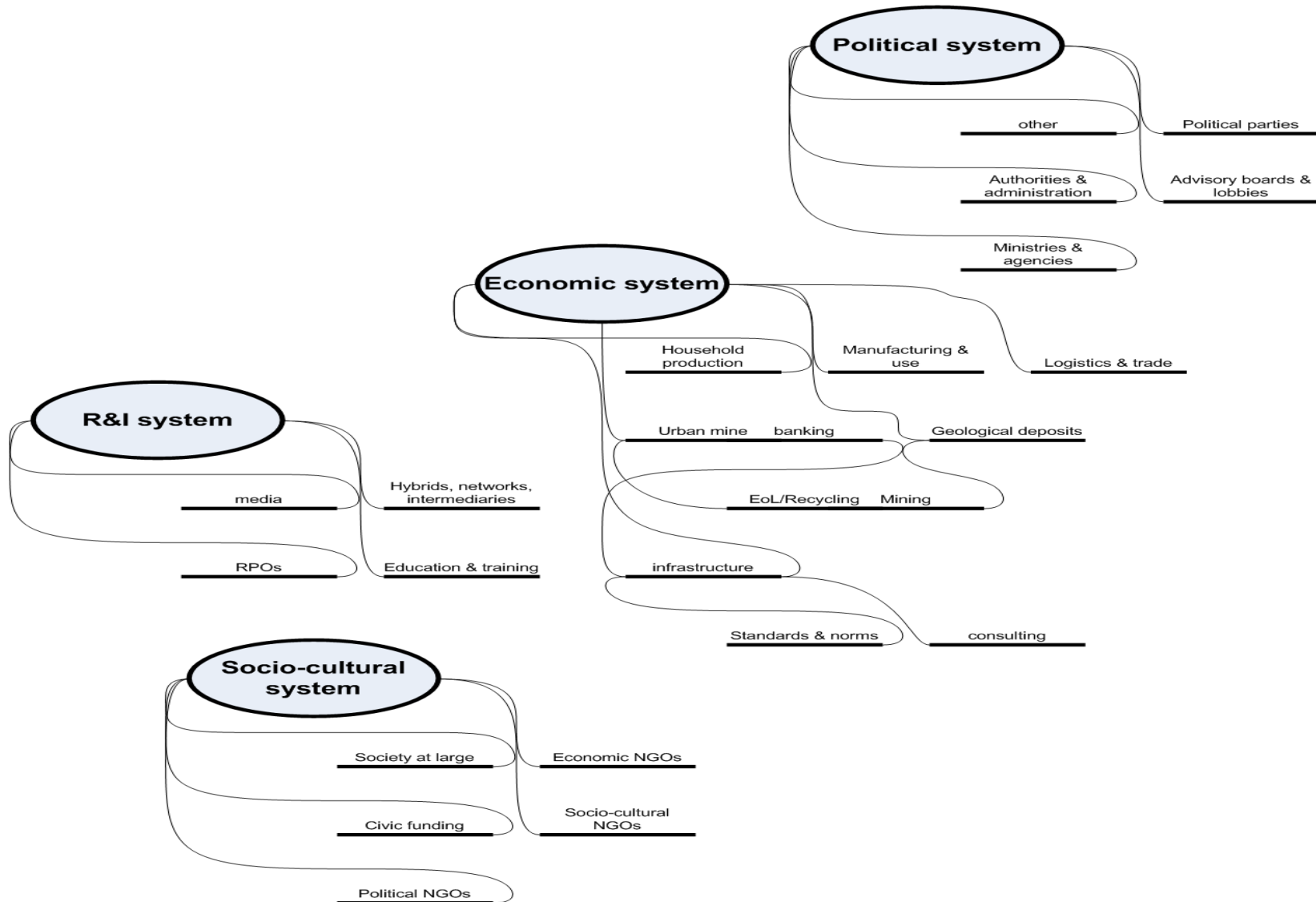
- Most projects focus on specific dimensions (geological data, substitution)
- 3 projects address a broad variety of indicators (EO-Miners, INTRAW, IRP WG); SDG relevance?
- User-perspective of EGDI to be leveraged
- Poor linkage of geological and socio-economic data

Geographical scope

- All projects include the EU
- Three projects are global (CRM_InnoNet, EIT-KIC, IRP WG)
- Selected non-European countries (INTRAW), others?
- Multi-level governance (EO-Miners)

MICA Survey?
Criteria for our scope

CONCEPT AND STAKEHOLDER GROUPS



World Café

- Four tables for the four concepts, categories on paper
- 10 minutes each table, then you switch
 - are important categories missing? (add with pencil)
 - identify as many as possible (write on post-it, fix it)
- Keep different levels in mind, such as global/local, start-up/MNC

Assessment

- Each one has 8 points, have a look, distribute them over the four whitepapers (cumulation allowed)
- From which stakeholder group do you want to know more about their needs?

STAKES: QUESTIONS, NEEDS AND REQUIREMENTS

- Stakes are considered as interests in RMI, questions express stakeholders interests in an easy, intuitive way
- Needs are not clearly defined with regard to RMI (cf. Maslow's pyramid)
 - needs versus wants
 - needs versus greeds
- Requirements are more specifically tailored to the RMI capacity
 - functional requirements
 - non-functional requirements

- each WP partner shall identify 3-5 supposed stakeholder questions he/she has in mind (e.g. while writing the proposal, tacit knowledge from conversation with peers)
- supposed stakeholder questions express assumed stakeholder needs with regard to the RMIC
- the supposed stakeholder questions should be relevant for your work package (WP leaders) or for other tasks in MICA (NTNU, EFG)
- the supposed stakeholder questions should be either novel or – if already known – not properly answered by existing activities

- **WP3: Data (NERC-BGS)**
- **WP4: Methods (CML)**
- **WP5: Policy (MinPol)**
- **WP6: RMIC (BRGM)**
- **WP7: Dissemination (EGS)**

- **EFG: professional geologists**
- **NTNU: case study**

- **Third parties**

- Come closer, have a look at the board
- You have 5 dots in blue and 5 dots in red
 - ,**blue**': question is worth to pursue it further in MICA
 - ,**red**': question is answered/irrelevant to MICA
- Selection of the top questions
- Are there any objections?

STAKES COMPILED FROM PAST PROJECTS

WP3

- functional and non-functional requirements for policy, public and private sector needs (EGDI)
- data is related to the dimensions of interest (EO-M)
- database improvements (Minerals4EU)
- land use planning decisions (Miniatura 2020)
- mining waste, abandoned mines and landfill inventories (Minventory)
- Stakeholder data capture and end-user requirements (Promine)
- Other stocks and geosurveys interest (ProSUM)

STAKES COMPILED FROM PAST PROJECTS

WP4

- modelling and virtual design of new materials (CRM_InnoNet) and prototypes (EIT KIC)
- 3D/4D modeling of ore belts and regimes based on Big Data (EIT KIC)
- product-centric modeling tools for the circular economy (EIT KIC)
- foresight scenarios on supply and demand of RM (Minerals4EU)

STAKES COMPILED FROM PAST PROJECTS

WP5

- **cross-cutting: raw material prices have declined over the past few years and SDG have been released**
- **harmonized substitution strategy for CRMs (CRM_InnoNet)**
- **radical RM innovations (EIT KIC)**
- **policy-links (Minventory/Minerals4EU)**

- exploit surveys: EGDI, EurGeoSources
- Integrated assessments (Miniatura, Promine, i2Mine)
- Co-operation (data: ProSUM, EuroGeoSource, Mininventory;
international: INTRAW)
- Action topics (EuroGeoSource)
 - socio-economic planning
 - crisis management
 - security of supply
- Functionality (EuroGeoSource, Minerals4EU)

STAKES COMPILED FROM PAST PROJECTS

WP7

- Very few

- Gaps in stakeholder inception
- Stakes I would like to know
- Supposed stakes we share as plausible, relevant, and not sufficiently answered

- Inception continued
 - amendment of stakeholder from VERA/RIF, other projects
 - amendment of stakeholder question from yesterday (minutes)
- Planning T2.2 Stakeholder ID and analysis
- Planning T2.3 Empirical appraisal of questions
- Technical aspects
- The way ahead

- The inception workshop will be informed
 - i) by an inventory of stakeholders in RMI compiled from past projects and
 - ii) by WP leader briefs on supposed stakeholder questions.
- These two strands will be mapped, discussed and matched to one another in a half-day internal workshop after the Kick-Off.
- An inception paper will be prepared that depicts
 - i) shared key requirements to the RMI capacity and
 - ii) refined directions for the systematic search.

THE ROAD TO THE INCEPTION PAPER (T2.1)



Introduction	3
Inventory of past projects.....	5
Inventory of stakeholder groups from past projects	7
Inventory of stakeholder needs/requirements from past projects	8
Inventory of supposed stakeholder needs/requirements from the perspective of the other work packages	9
Towards a shared understanding of key RMI issues	10
References	11
ANNEX A: Project Inventory Template and Guidelines	12
ANNEX B1 INTRAW – International Raw Materials Observatory (http://intraw.eu/).....	17
ANNEX B2 EGDI-Bridge / EGDI-Scope - European Geological Data Infrastructure (http://www.egdi-scope.eu/)	21
ANNEX B3 IRP Working Group - International Resource Panel Work on Global Metal Flows (http://www.unep.org/resourcepanel/)	34
ANNEX C: Thesis on supposed stakeholder requirements / needs from the perspective of other work packages	40

T2.2.1: Stakeholder list - expand the list, identify subgroups, organisations & persons (*involved*):

- EC level: analyse past tenders (who issued & who answered) – ID advisors & questions; trace stakeholders of EU mineral policy, e.g. within consultations, ID decision makers & initiative aims;
- EU member-state level: classify member states to select representative countries; analogue to above;
- Industry: approach industry associations and chambers;
- Expert communities and other interest groups: analyse scientific conferences and positioning papers respectively.
- Open call to raise stakes via the MICA website (WP7).

T2.2.2: Stakeholder analysis - involved, affected & dormant.

- WP2 participants will hold brainstorming sessions (*affected*)
- Foresight studies will be analysed (*dormant*)

TASK 2.3 COLLECTION AND MAPPING OF STAKES

T2.3.1: Preparation of the appraisal (template & plan) - account for other WPs capabilities, tailored to principal stakeholder groups.

T2.3.2: Appraisal of stakeholders' RMI needs & requirements.

- i. 2-3 surveys to capture distributed stakeholders' positions (e.g. member-state geosurveys, professional geologists);
- ii. 4-6 small group meetings/interviews to elicit key stakeholders' positions in depth; and
- iii. 1 interactive multi-stakeholder workshop to identify non-apparent stakeholders' needs and requirements & joint interests (~ 30 external participants, in Brussels along with the second Consortium meeting)

T2.3.3: Data analysis and validation. The outcomes of the need & requirement appraisal will be analysed, classified and mapped. The findings will then be consolidated by the project team in a virtual meeting, and documented in a report.

EFFORT AND PARTNERS INVOLVED IN WP2

Work package number ⁹	WP2	Lead beneficiary ¹⁰	2 - Fraunhofer
Work package title	Needs: Stakeholder identification, appraisal and mapping of stakeholder requirements		
Start month	1	End month	14

Participation per Partner

Partner number and short name	WP2 effort
1 - GEUS	1.00
2 - Fraunhofer	10.00
3 - NERC	1.00
4 - UL-CML	2.00
5 - Minpol	1.50
6 - BRGM	1.00
7 - EGS	2.00
12 - EFG	3.00
13 - NTNU	1.00
Total	22.50

4 Third parties: MFGI, LNEG, PGI, SGU

	primary	secondary
EU level	M1	M1
National level	S1	I1
Industry	S2/M2	M2
Experts	S2	I4
Other Interest groups	I2	I3

M(meeting)1: FIS/GEUS

M(meeting)2: NTNU/FIS

S(survey)1: EGS (FIS)

S(survey2): EFG (FIS)

I(interviews): to be allocated (CML, MinPol, NTNU, GEUS, BRGM, BGS, Third Parties)

Map T2.2 and T2.2 at the boards!

+ template for everybody

+ stakeholder workshop

Aims:

- Identify further hidden stakes
- Refine and prioritise stakes

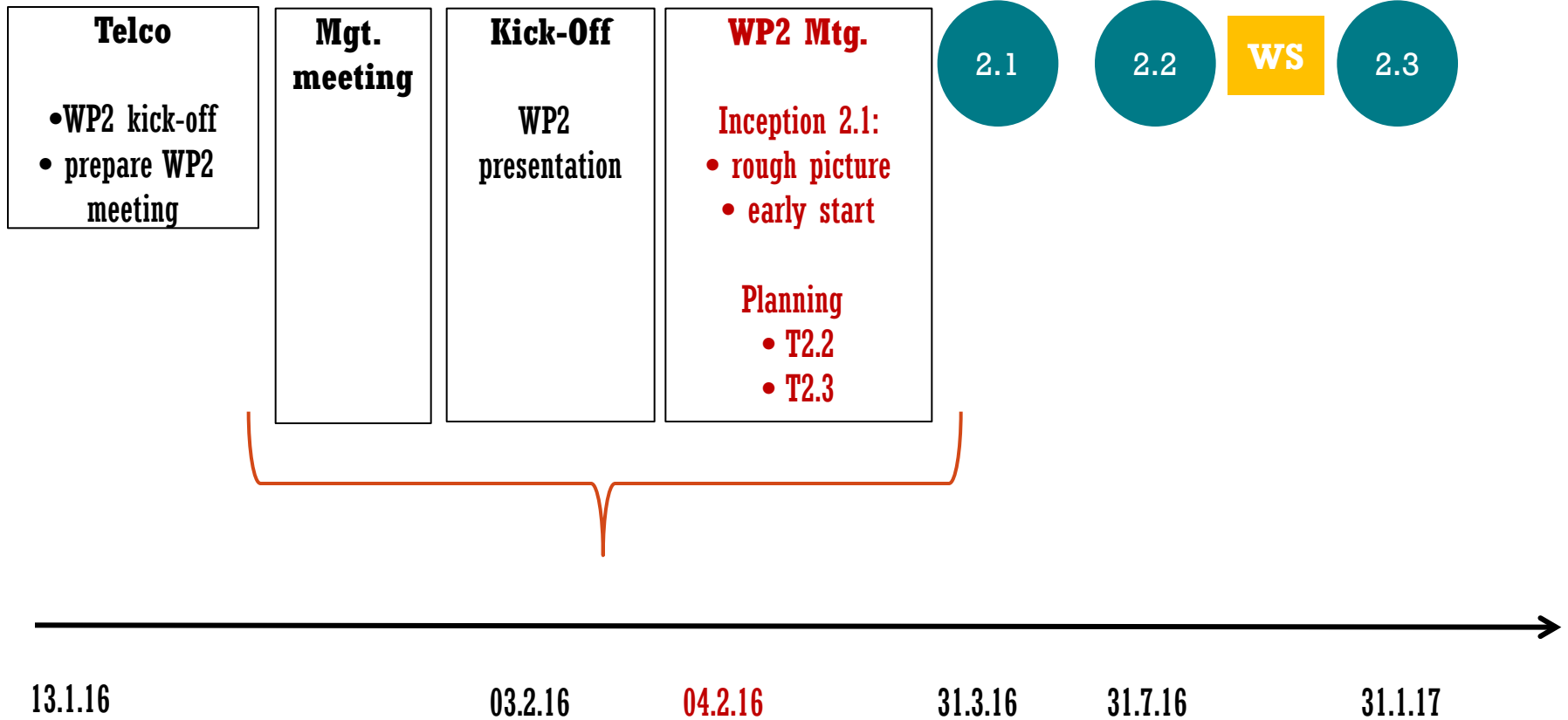
Participants:

- Neglected stakeholders
- Legitimate stakeholders

Support and organisation:

- EGS and GEUS
- Input from other WPs

TIME PLAN



- Shared workspace
- Excel-file and sheets
- Hierarchy
 - concept, subconcept
 - stakeholder group / subgroup
 - organisation / department
 - individual (only if directly available)
- Characterisation
 - urgency, legitimacy, power
 - affected/involved; today/future

MISCELLENEOUS



MICA Mineral Intelligence
Capacity Analysis



Co-funded by
the European Union

THANKS FOR YOUR ATTENTION

Logo of your
organisation

Name of the speaker
Organisation
Email -address