

Networking session

Technological challenge on Human Language Technologies

Edouard GEOFFROIS
Kristine RUDZITE-STEJSKALA
Marco DETRATTI

European Commission
DG DEFIS

Brussels & Online

29 June 2023

- Introduction to the concept of a technological challenge
- The EDF 2023 call for proposals for the technological challenge on HLT
- Q&A
 - you can ask questions any time via slido

Q&As via Sli.do: For remote participants

LIVE STAGE Plenary

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Jun 29 2023

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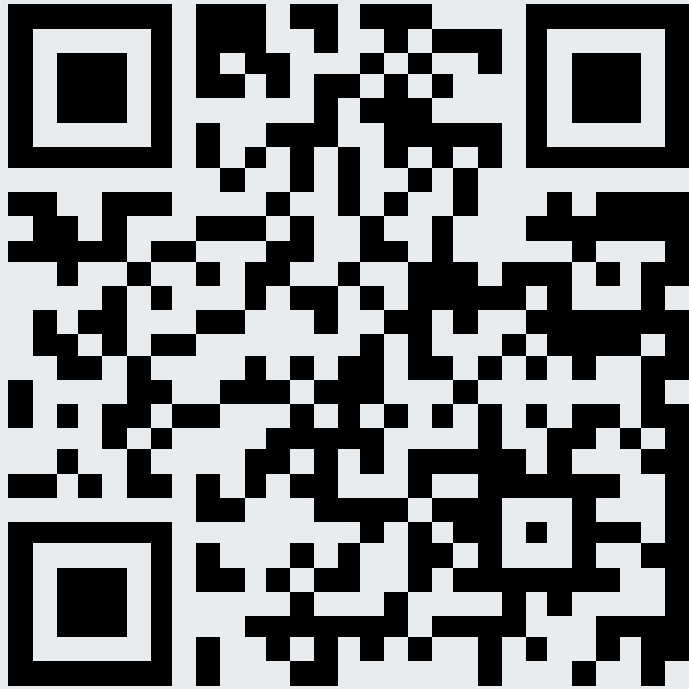
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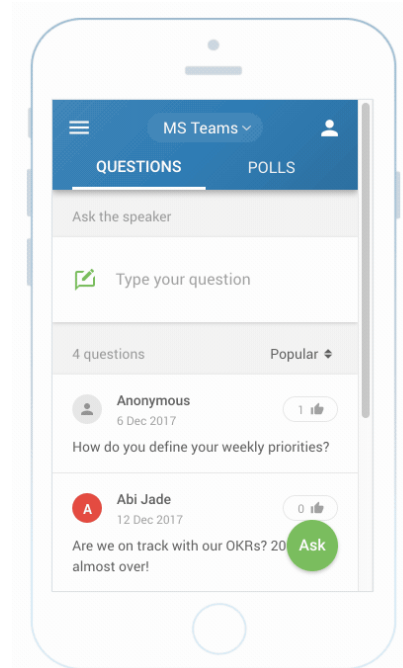
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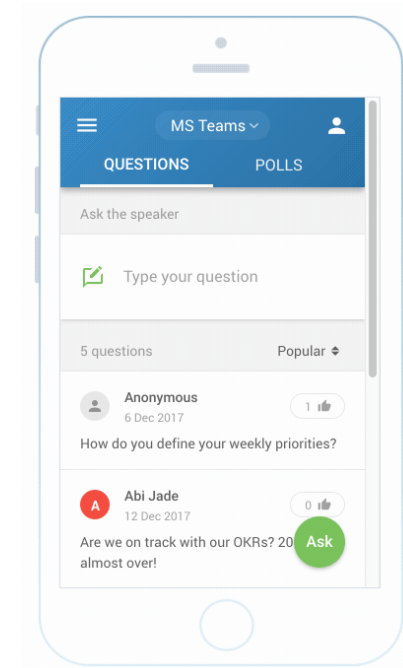
Q&As via Sli.do: For participants in the room



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ASK A QUESTION

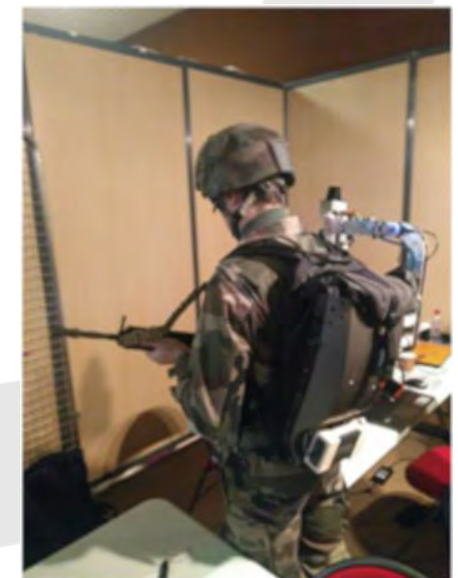
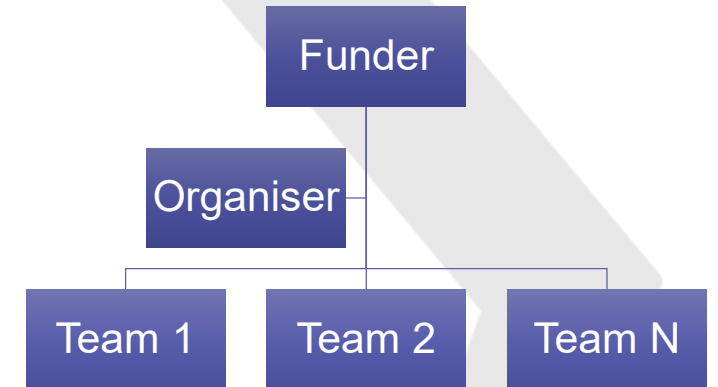


UPVOTE A QUESTION

Introduction to the concept of a technological challenge



- A form of organisation incentivising researchers or developers to address a given challenging objective
- by **setting up a testing environment** (equipment and/or data) to measure and foster the progress of R&D teams toward the objective



Technological challenges: Implementation of the tests



- Access to the testing environment by the R&D teams takes place over specified test periods
 - Software only \Rightarrow teams receive a common test data set provided by the organiser, run their systems on it and provide back the outputs
 - Technology involving hardware \Rightarrow all teams gather and bring their prototypes in the same location
 - In all cases, the organiser ensures objective and comparable measurements
- Joint experiment campaigns, called “evaluation campaigns” or “competitions” depending on the communities



Technological challenges: Scope of relevance and benefits



- Challenges are needed in some technological domains to ensure that measuring progress is done in an objective and comparable way, in particular
 - when the tests involve parameters that cannot be fully controlled, or details that must not be revealed beforehand in order to avoid biases
 - when a testing environment of adequate size can only be set up and serviced temporarily
- Challenges are an important tool in these domains to
 - promote quality R&D
 - enlighten choices about funding and solutions for future systems
- Challenges offer a unique combination of
 - mission-driven R&D steering
 - openness to innovative approaches
 - ability to gather critical mass and foster community building

EDF-2023-LS-RA-CHALLENGE: Call for EDF research actions, in the form of a technological challenge, implemented via lump sum grants



INFO | 20
DAYS | 23

Type of action:

EDF-LS-RA: Lump Sum Grant – Research Action

Number of topics: 2

Type of grant:

Lump Sum Grant

CALL ID

EDF-2023-LS-RA-CHALLENGE

TOPIC ID

EDF-2023-LS-RA-CHALLENGE-DIGIT-HLTP
EDF-2023-LS-RA-CHALLENGE-DIGIT-HLTO

BUDGET

25 M€

EUDIS measure

Offers a unique combination of *steering mission-driven R&D*, promoting innovation and fostering *community building* for a particular technology



Common testing environment to measure progress of different teams in a comparable way



Blind testing ensuring the objectivity of measurements for intelligent systems involving Machine Learning



Supports informed choices for end-users about feasibility of solutions for future systems

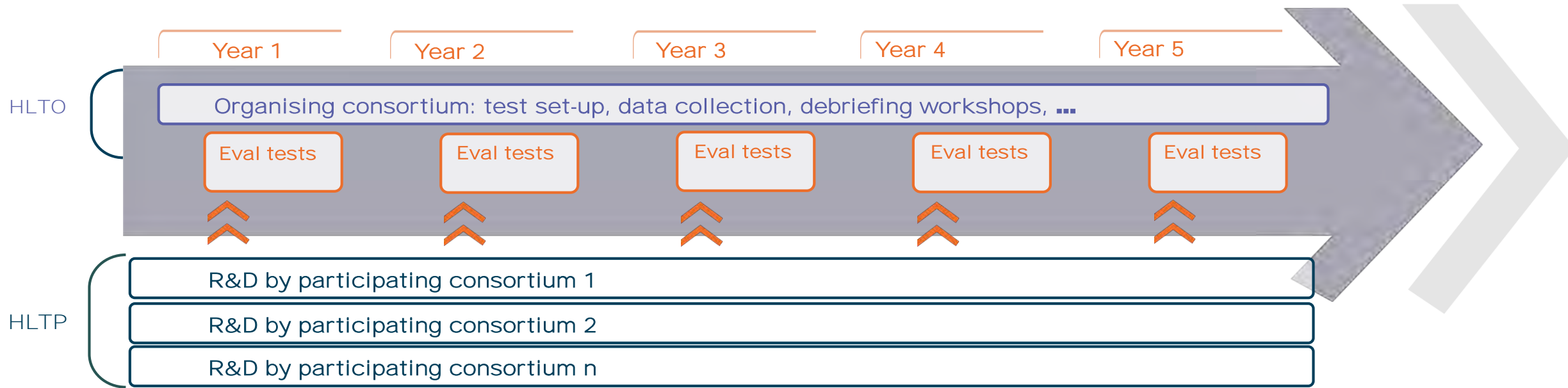
EDF-2023-LS-RA-CHALLENGE: Topics



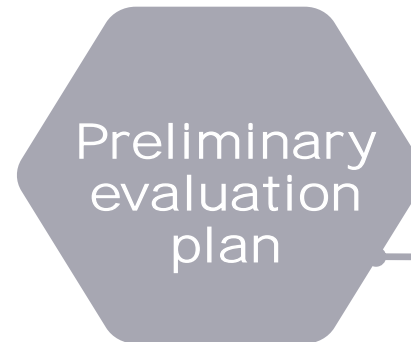
Topic/Budget	Title	Scope*	Mandatory types of activities	Expected # projects funded
EDF-2023-LS-RA-CHALLENGE-DIGIT-HLTO 7 M€	Agile and robust human language technologies for defence – Organisation of a technological challenge	Organise technological challenge on human language technologies	<i>Integrating knowledge</i>	1
EDF-2023-LS-RA-CHALLENGE-DIGIT-HLTP 18 M€ (6 M€ per proposal)	Agile and robust human language technologies – Participation to a technological challenge	Address technological solutions to process linguistic information in its different forms. Solutions to be integrated in demonstrators	<i>Generating knowledge, Integrating knowledge</i>	≥1

* Indicative summary

EDF-2023-LS-RA-CHALLENGE: Implementation

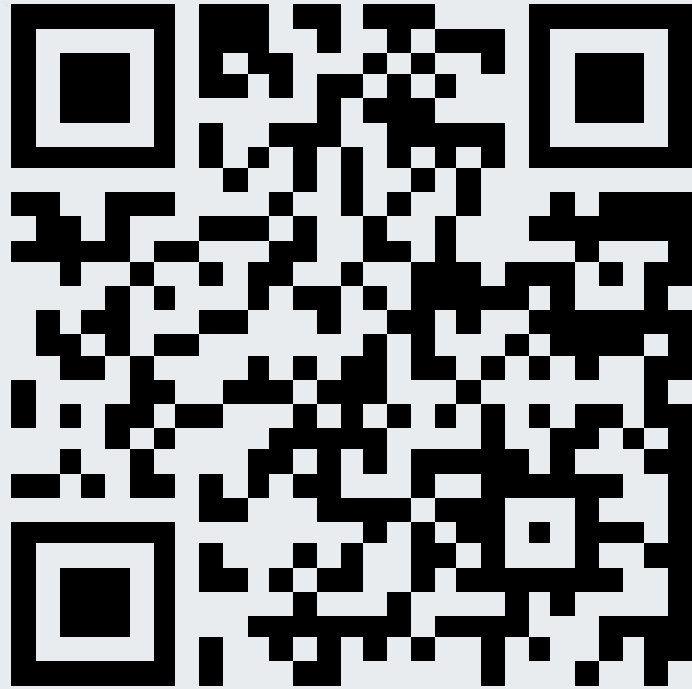


- Lump sum broken down by participant and work package
- Paid after completion of work package



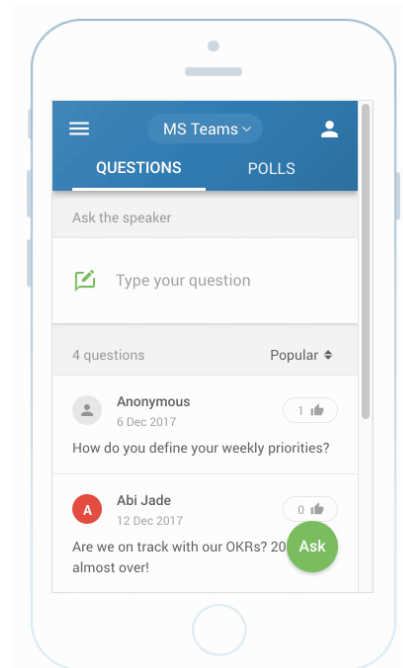
- Annex to the call document (cf. link under topic conditions and documents)

Q&A Time !

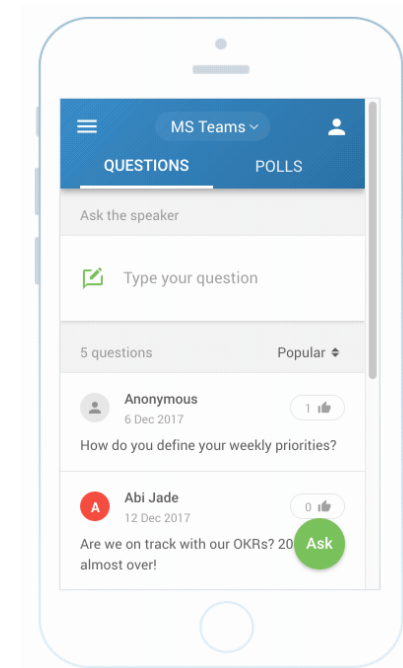


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- Scan the QR code
- Enter your name & event passcode
- Ask a question!



ASK A QUESTION



UPVOTE A QUESTION

**MANY
THANKS
FOR YOUR
ATTENTION**