



LLMs4EU - Large Language Models for the European Union

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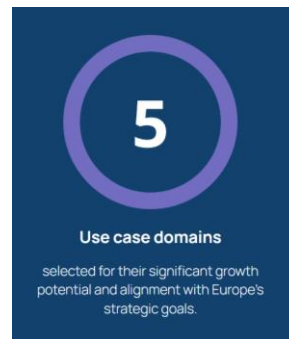
ALT-EDIC Forum

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Finetuning LLMs for strategic sectors in all EU languages

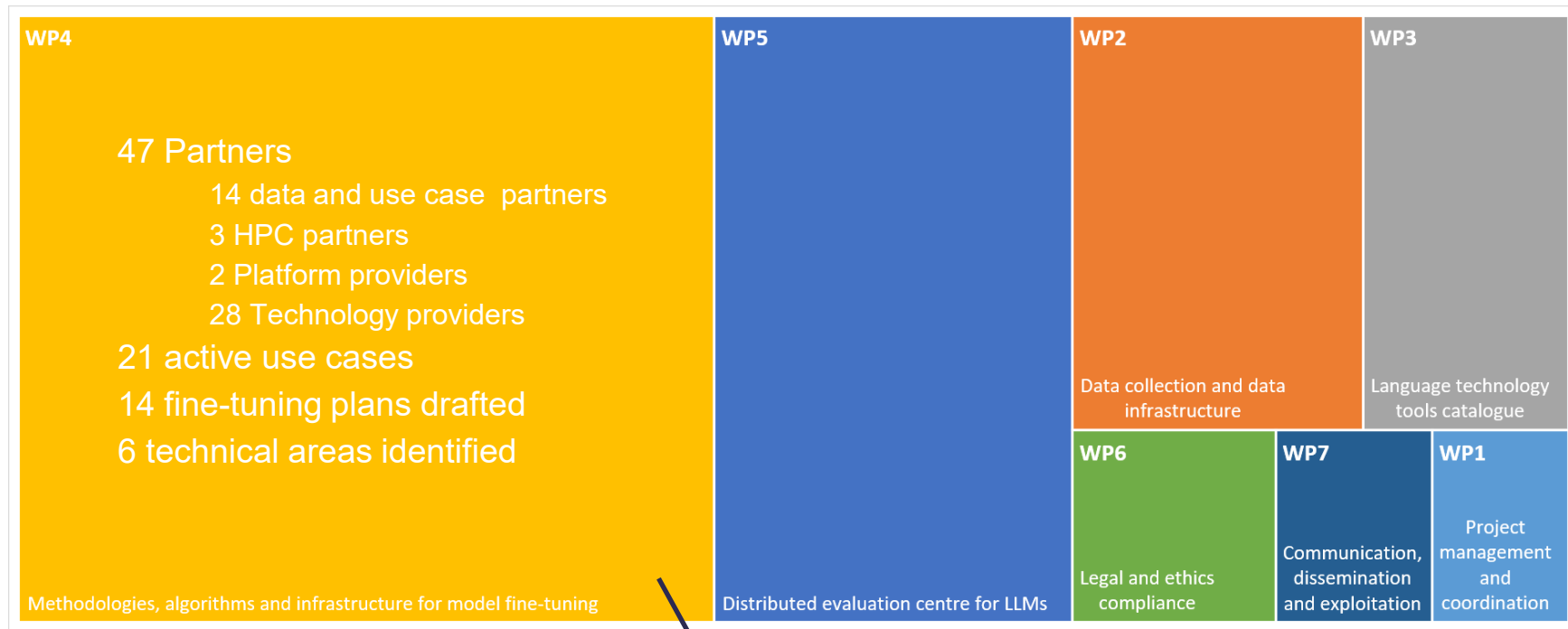


Science
Public services
Tourism
Telecom
Energy

Main technical areas

- Data collection and infrastructure (WP2, ATHENA-RC)
- Online catalogue (WP3, Tilde)
- Methodologies, algorithms, and infrastructure for fine-tuning (WP4, expert.ai)
- Evaluation (WP5, ALT-EDIC)

LLMs4EU: WP structure and PM distribution



Total PMs: 4.657

Use cases included



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LLMs4EU: Technical coordination

UC leader
appointment

UC overview
and
stakeholders

Appointment
of specific
plan leads

Document
drafting and
discussion

Validation



- **Fine-tuning plan**
- **Evaluation plan**
- **Data creation plans and annotation guidelines**
- **Legal and ethics compliance assessment plan**

Technical Coordination spreadsheet available [here](#)



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Tight project collaboration



Domain-specific pre-training data

- 20B tokens from the Open Science Collection (Pleias) in all EU languages
- 20M tokens from Finnish PhD theses and articles
- 500K tokens from Romanian PhD theses
- Domains include health, physical, life, and social sciences
- In addition to science, telecom looking at possible datasets to contribute



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LLMs4EU contribution through extrinsic evaluation



Popular baseline (family of) models/model provider according to LLMs4EU UC fine-tuning plans

- Use case developers open to experiment with multiple models
- Evaluations will reveal the models best suited to each use case

Towards the creation of the Distributed Evaluation Centre

Evaluation principles:

- **Blind testing**: evaluation on unseen data
- **Transparency**: post-evaluation access to data for result interpretation
 - **Synchronised** evaluations for all participants
 - Creation of **new datasets** for each evaluation

Data requirements:

- ✓ **Relevant** to the task
- ✓ Large enough for **statistically reliable results**



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Thank you!



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