

uninovis

DATA FOR L.I.F.E.
EUROPEAN UNIVERSITY

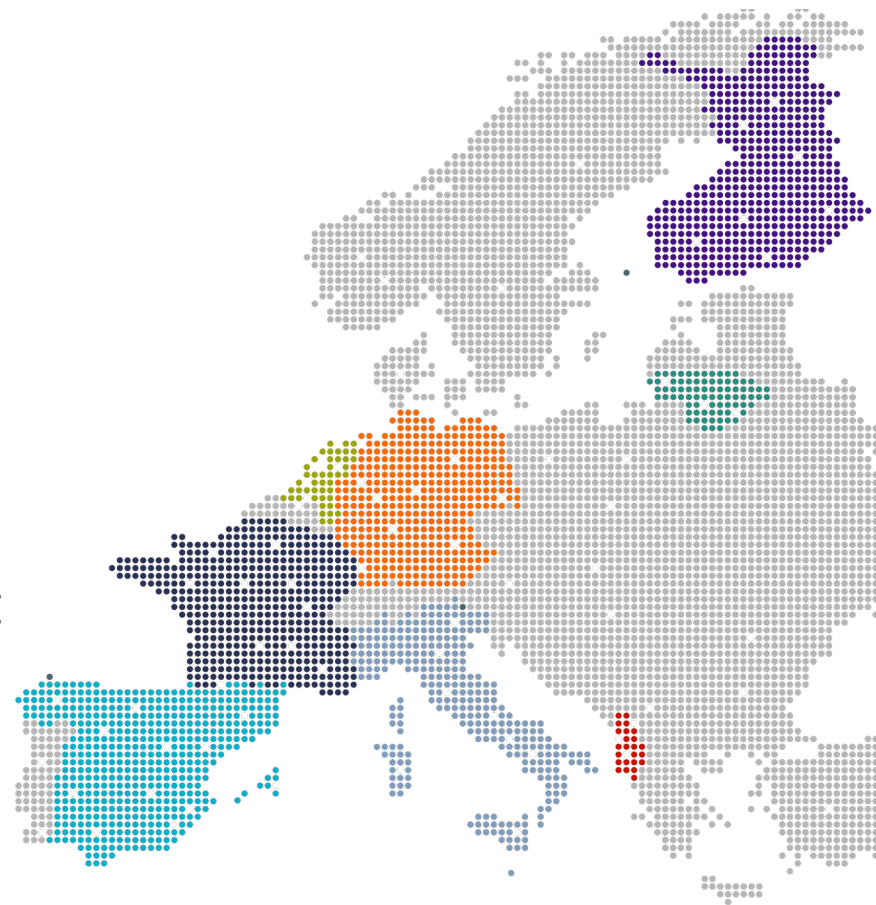


ARTIFICIAL INTELLIGENCE FOR EUROPEAN UNIVERSITY ALLIANCES: RESEARCH, TEACHING AND ADMINISTRATION

Málaga, June 15-19, 2026

Day 1. 12:00-13:30

Session 2. Observe & Explore



UNIVERSITÉ
**SORBONNE
PARIS NORD**

KAUNO
KOLEGIJA

Tampere University
of Applied Sciences

thws
Technical University
of Applied Sciences
Würzburg-Schweinfurt

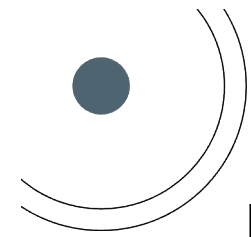
UNIVERSIDAD
DE MÁLAGA

V: Università
degli Studi
della Campania
Luigi Vanvitelli

**UNIVERSITY
OF TIRANA**

THE HAGUE
UNIVERSITY OF
APPLIED SCIENCES

 Co-funded by
the European Union



BEFORE WE START

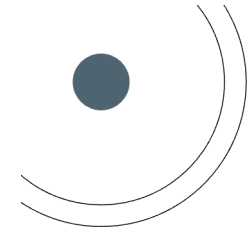
We are a **diverse group in term of the technical background.**

- Some participants will feel that we advance too slowly
- Others may require more time for each exercise/task

So, we need your help here:

- If you are a quick one, could you help other participants ?
- If you need to advance slowly, consider carrying out the challenges with another participant (and later replicate them alon)

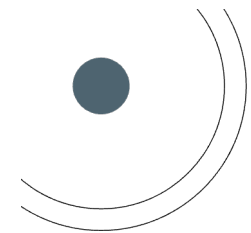




Agenda for this session

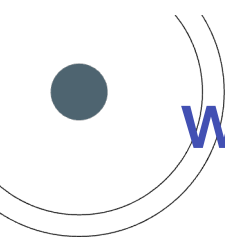
- Part 1. Revising TOMMI Lite
- Part 2. Hands-on: Make a first one-shot agent
- Part 3. Share your experience
- What you should have learnt in this session





Part 1. TOMMI Lite



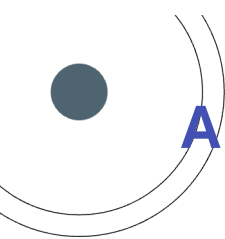


Where are you with TOMMI Lite?

Level	Status
Level 1	I installed it and practiced
Level 2	I installed it but I could not practice
Level 3	I did not have the time to install it

Participants at levels 2 and 3 are encouraged to pair up with participants at level 1, so that everyone can actively participate in the hands-on activities.





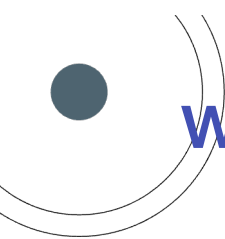
A brief reminder

TOMMI is a full AI agent platform running at gloria.uma.es — it hosts multiple agents for research, teaching, and administration within UNINOVIS.

TOMMI Lite is a lightweight, local version that you install on your own laptop. It allows you to create and test agents without needing a server.

How we use it: TOMMI Lite is the tool we will use throughout this BIP to create agents. You edit text files (`config.json`, `prompts.json`), restart the server, and your agent appears in the browser.





What is TOMMI Lite?

A minimal, local development server for building and testing AI agents.

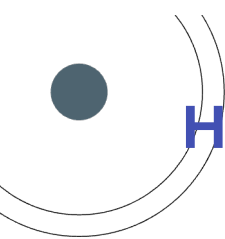
It provides:

- A web-based chat interface
- An agent creation wizard
- A unified LLM client (Mistral Cloud, Ollama, vLLM)

Runs locally on your machine while connecting to cloud-based LLMs for language generation.

Not intended for production — it is a development and learning tool.





How TOMMI Lite Works

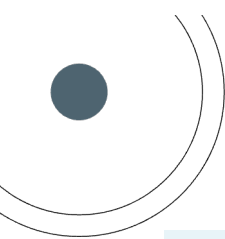
The user interacts through a web browser.

The Agent Server (running locally) hosts multiple agents, each specialised for a different task.

When an agent receives a query, it may perform actions — such as searching a knowledge base or querying a database — before sending the query and context to the LLM.

The LLM generates a response, which the agent processes and delivers to the user.





TOMMI Lite — LLM Configuration

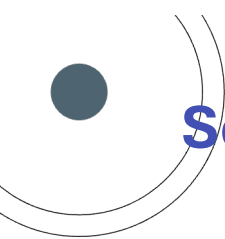
All agents use a Large Language Model (LLM).

You must tell TOMMI Lite which LLM to use.

Open the file env.txt in the main TOMMI Lite folder
and paste these three lines:

```
LLM_PROVIDER=mistral  
MISTRAL_API_KEY=9dRglhLXuUwomuXcJlltsKTYXBDXSS1T  
MISTRAL_MODEL=mistral-small-latest
```





Setting Up TOMMI Lite

1. Download the installer for your platform:

Mac:

<https://consigna.uma.es/?s=download&token=a638e52b-75bb-4c18-b499-8404370917f7>

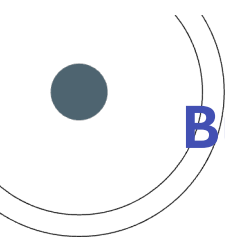
Windows:

<https://consigna.uma.es/?s=download&token=7ab1d964-eab2-4728-bd52-a9ab67de1e8b>

2. Follow the instructions in section

"3. Setting Up TOMMI Lite" at: <https://uninovis.widening.eu/bipia>

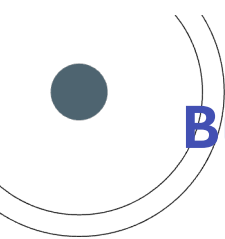




Building Your First Agent — Web Wizard

1. Open TOMMI Lite in your browser (<http://localhost:8000>)
2. Click "+ Create Agent" in the sidebar
3. Follow the 4-step wizard:
 - Step 1: Choose the agent type
 - Step 2: Configure name, description, prompt, and examples
 - Step 3: Upload data files (for RAG agents)
 - Step 4: Restart the server and start chatting!





Building Your First Agent — Manual Creation

For more control, create an agent manually:

1. Copy an existing agent folder:

```
cp -r agents/hello_world agents/my_agent
```

2. Edit the four files:

config.json — Agent metadata (name, type, description)

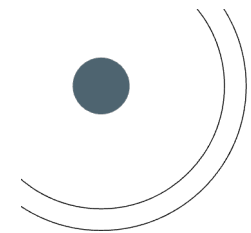
prompts.json — System prompt (identity, rules, strict)

agent.py — Agent logic

app.py — Required for discovery (can be empty)

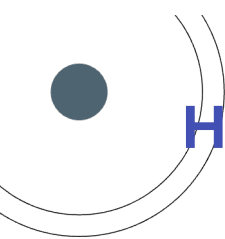
3. Restart the server — your agent appears automatically





Part 2. Hands-on: Make a first one-shot agent



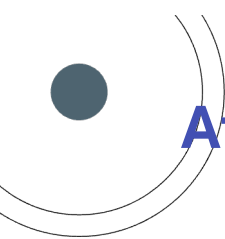


Hands-on: Make a first one-shot agent

Task: Using the same BIP information currently in the web create your own one-shot agent.

The goal is NOT to make a perfect agent — the goal is to familiarize with the agentic server, with the one-shot structure, and with the system prompt.





After building your agent

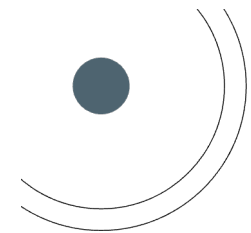
Test it with at least 5 queries

Note what goes wrong:

- Hallucinations
- Wrong answers
- Off-topic responses accepted: does it answer unrelated questions?

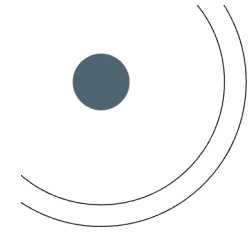
Keep a record of the failures — you will need them in Part 3





Part 3. Share your experience

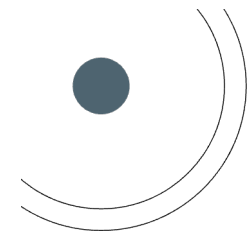




You have all built a chatbot. Most possibly some answers were good, some were not.

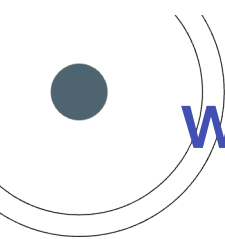
- How did it go? Was it easy, difficult?
- If you used/tested it, how were the results? Any issues?
- Has this exercise helped you understand what a basic agent (chatbot) is?





Take aways

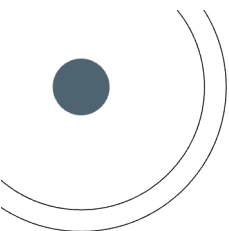




What you should have learnt

1. What TOMMI Lite is
2. How to create a basic one-shot agent (hands-on)
3. That creating a 'bad' agent is easy — making a 'good' one requires deliberate design

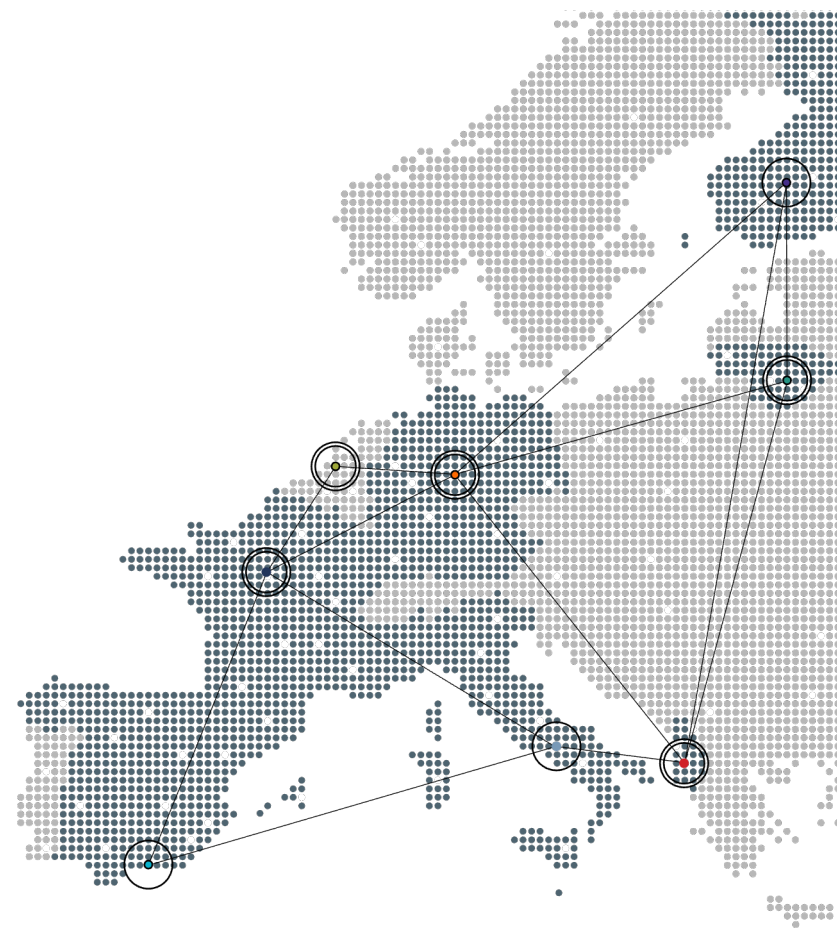




uninovis

DATA FOR L.I.F.E.
EUROPEAN UNIVERSITY

END OF SESSION 2



UNIVERSITÉ
**SORBONNE
PARIS NORD**

KAUNO
KOLEGIJA

Tampere University
of Applied Sciences

thws
Technical University
of Applied Sciences
Würzburg-Schweinfurt

UNIVERSIDAD
DE MÁLAGA

V: Università
degli Studi
della Campania
Luigi Vanvitelli

**UNIVERSITY
OF TIRANA**

THE HAGUE
UNIVERSITY OF
APPLIED SCIENCES

 Co-funded by
the European Union