

uninovis

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

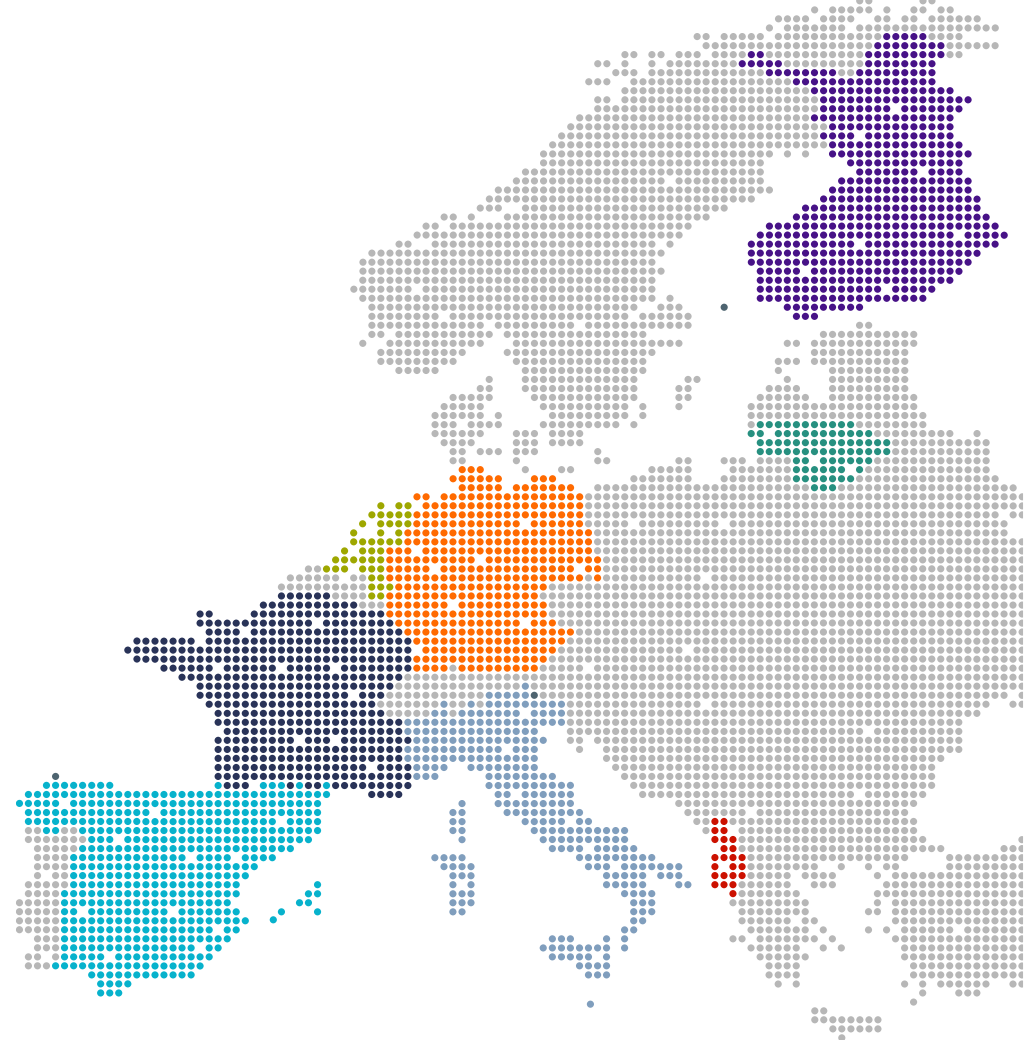


ARTIFICIAL INTELLIGENCE FOR EUROPEAN UNIVERSITY ALLIANCES: RESEARCH, TEACHING AND ADMINISTRATION

Málaga, June 15-19, 2026

Day 2. 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
Wittenburg-Schweinfurt

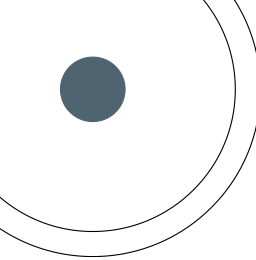
UNIVERSIDAD
DE MÁLAGA

V:
Università
degli Studi
della Campania
Luigi Vanvitelli

UNIVERSITY
OF TIRANA

THE HAGUE
UNIVERSITY OF
APPLIED SCIENCES

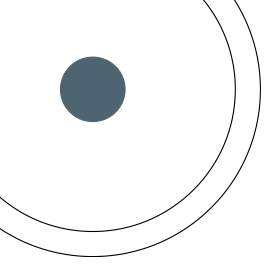
Co-funded by
the European Union



Agenda for this session

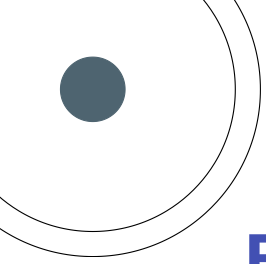
- Introduction and prerequisites
- Part 1. Create a RAG Agent using NotebookLM
- Part 2. Create a RAG Agent using TOMMILite
- Part 3. Discussion
- Takeaways





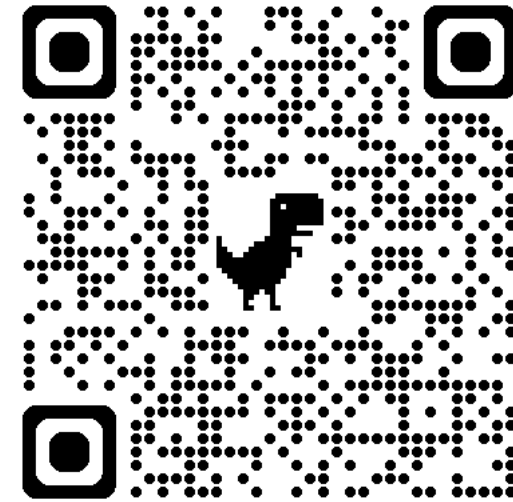
Introduction and prerequisites





Before we start

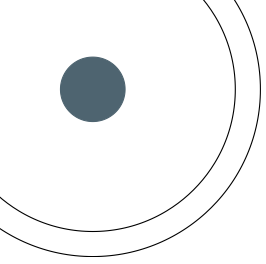
Download the PDF documents that you will need to create your Agent:



<https://consigna.uma.es/?s=download&token=11905efa-ad9e-413e-8dd9-9f1efa4fb5c5>

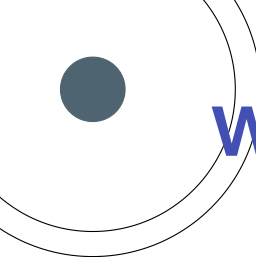


The document are mostly related with **Transparency in AI**



Part 1. Create a RAG Agent using NotebookLM





What is NotebookLM?

A Google tool that creates a RAG agent from documents you upload.

A quick way to experience RAG without any coding:

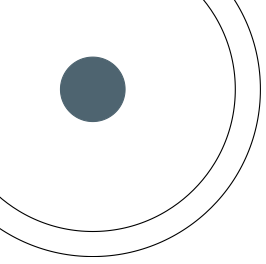
1. Go to NotebookLM

<https://notebooklm.google.com/>

2. Upload documents

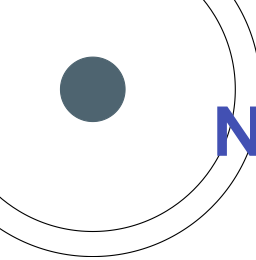
3. Ask questions — it answers from the documents, citing sources





Part 2. Create a RAG Agent using TOMMILite





NotebookML in TOMMI Lite

Same idea as Google's NotebookLM — but you control everything:

- The system prompt
- The retrieval
- The behaviour

TOMMILite includes a template to create NotebookLM-like agents.

You only need to upload the documents, and it answers grounded in those documents.



Create New Agent

Build an AI agent in minutes — no coding required

1. Choose Type

2. Configure

What kind of agent do you want to create?

Simple Chat (oneshot)

A conversational agent with a custom system prompt. No data files needed.

RA

Ret
tex
pas

RAG + Metadata

RAG agent with structured metadata (researchers, papers). For research excellence hubs.

RA

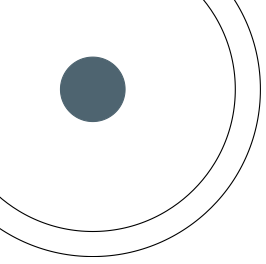
Lik
me

NotebookML (document Q&A)

A NotebookLM-style agent. Upload your documents and ask questions — answers are grounded exclusively in your sources with source citations.

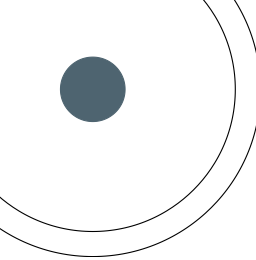
Te

Cor
aga



Part 3. Compare both agents





Exercise: Oneshot vs RAG

Same information, different architecture

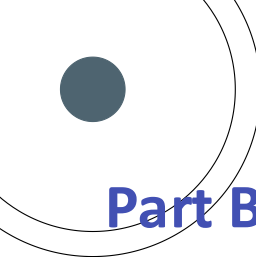
Setup: Both agents have the same information about the BIP and TOMMI Lite. The oneshot has it in the system prompt; the RAG has it in data/docs/.

Part A — Factual precision

Ask these exact queries to both agents and record the answers:

#	Query	Oneshot answer	RAG answer	Difference?
1	What time does Day 3 start?			
2	Who gives the keynote on Day 5?			
3	What files do I need to create an agent in TOMMI Lite?			
4	What is the difference between vector-based and vectorless RAG?			
5	What is the Mistral API key for this workshop?			
6	Add your question			
7	Add your question			





Part B — Edge cases

Ask these queries that test the limits of both agents:

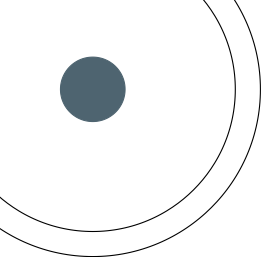
#	Query	Oneshot	RAG	Which one better?
8	What is the weather in Málaga? (not in the data)			
9	wht r the agent typs? (typos)			
10	Write me a summary of Day 2 (task request)			
11	Add your question			
12	Add your question			

Part C — Consistency

Ask query #11 three times to each agent (start a new chat each time):

Agent	Run 1	Run 2	Run 3	Consistent?
Oneshot				
RAG				



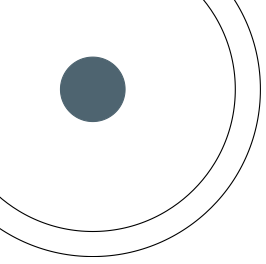


Part D — Modify your agent

When using your agents you probably observed some aspects that required improvement. Are modifications equally easy/difficult in both cases?

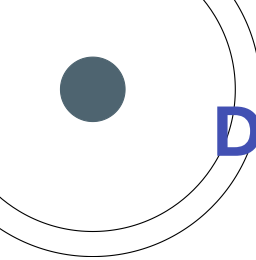
Agent	Is it easy to modify?
Oneshot	
RAG	





Part 3. Discussion

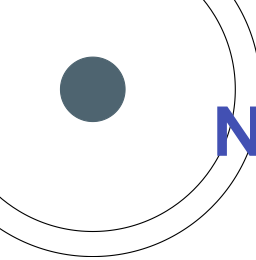




Discussion

- Which agent gave more precise answers in Part A? Why?
- Did either agent hallucinate in Part B? How could you tell?
- Which agent was more consistent in Part C? Why might that be?
- For query #5 (API key): did both agents return it? What are the implications?

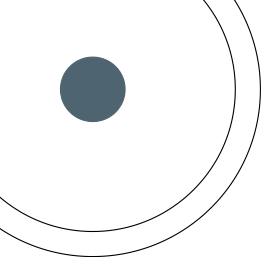




NotebookLM vs TOMMI Lite

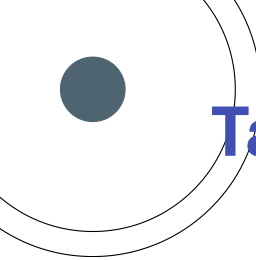
	NotebookLM (Google)	NotebookML (TOMMI Lite)
Ease of use	Very easy — no setup	Requires uploading + TOMMI running
Control	None — Google decides	Full — you write the prompt
Source citation	Built-in	Controlled by your prompt
Customisable prompt	No	Yes — identity, rules, strict
Private / local	No — data sent to Google	Yes — runs on your machine
Can be shared	No	Yes — copy the agent folder





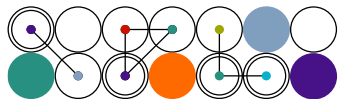
Takeaways

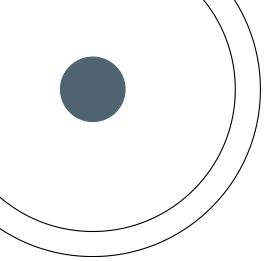




Takeaways

1. The difference between a managed tool (NotebookLM) and a self-hosted tool (TOMMI Lite) — ease of use vs control
2. NotebookLM does not inform which LLM it uses, and it does not inform about the extent to which information is grounded in the database
2. RAG agents cite sources and are grounded in documents — but the quality depends on the documents you upload





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

END OF SESSION 2

