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FINOS AI Strategic Initiative

Building a Taxonomy for AI Evals in Finance

From use cases to benchmarks: a shared framework



The Challenge & Our Approach

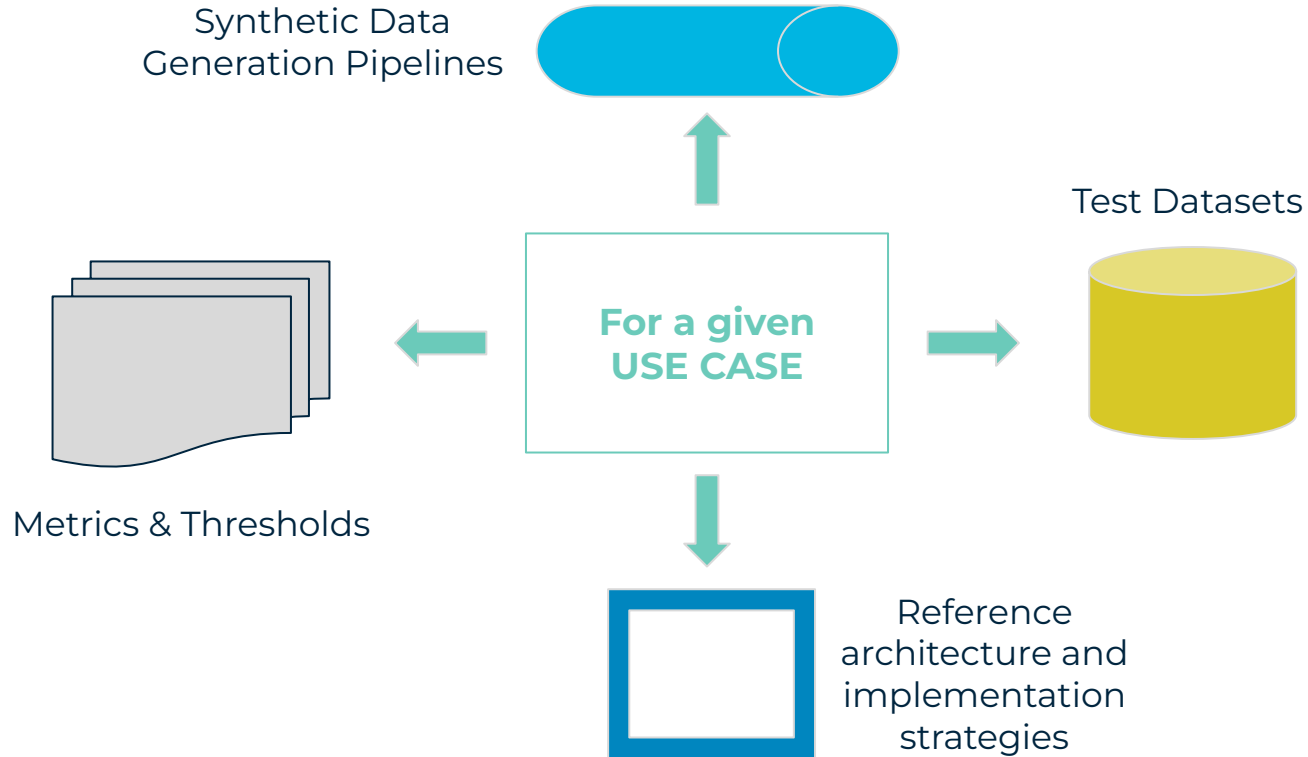
Challenges

- AI systems are non-deterministic → no guarantees that it works
- Financial tasks rarely have one “correct” answer

Approach

- Anchor evaluations in **financial use cases taxonomy**
- **Taxonomy Dimensions:** Use case → Risks → Metrics
- **Demo and Example repos** in FINOS Labs

Deliverables

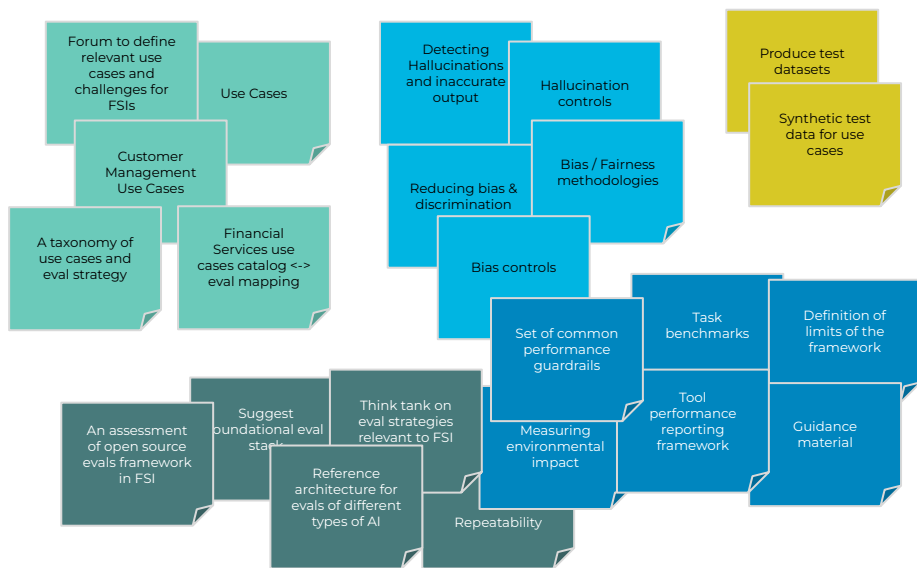


Next Steps

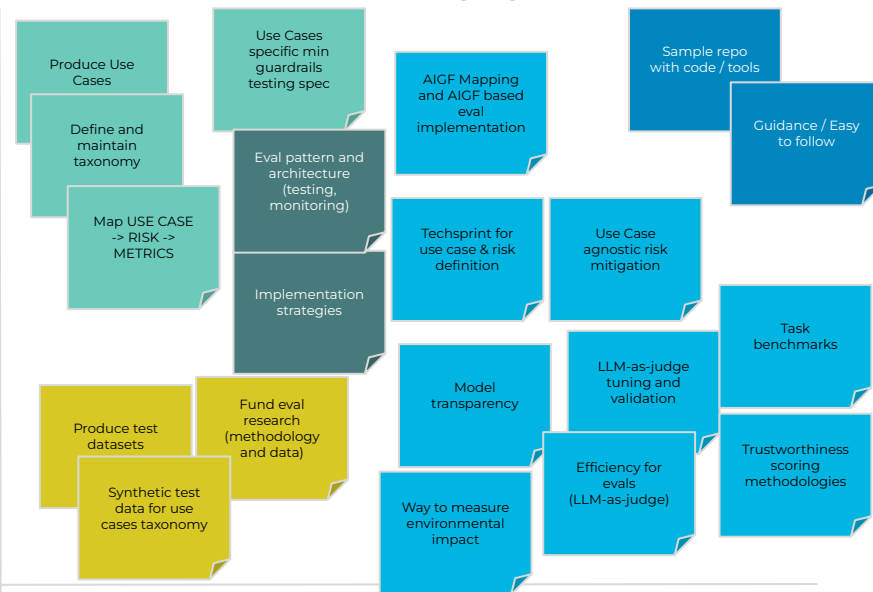
Gather workshop and techsprint artefacts	September	DONE
Identify maintainers	September	WIP
Literature review	October	
Present the project to FINOS TOC	October	
Set up FINOS infrastructure (periodic meetings, repo)	October	
Publish template repos & examples	November	
Pilot with financial institutions	Q1 2026	
Expand shared taxonomy across industry	Q2 2026	

Artefact 1: Defining Initiative Identity

IS



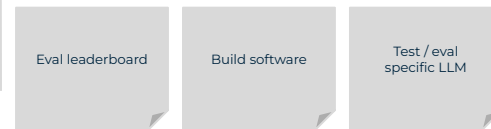
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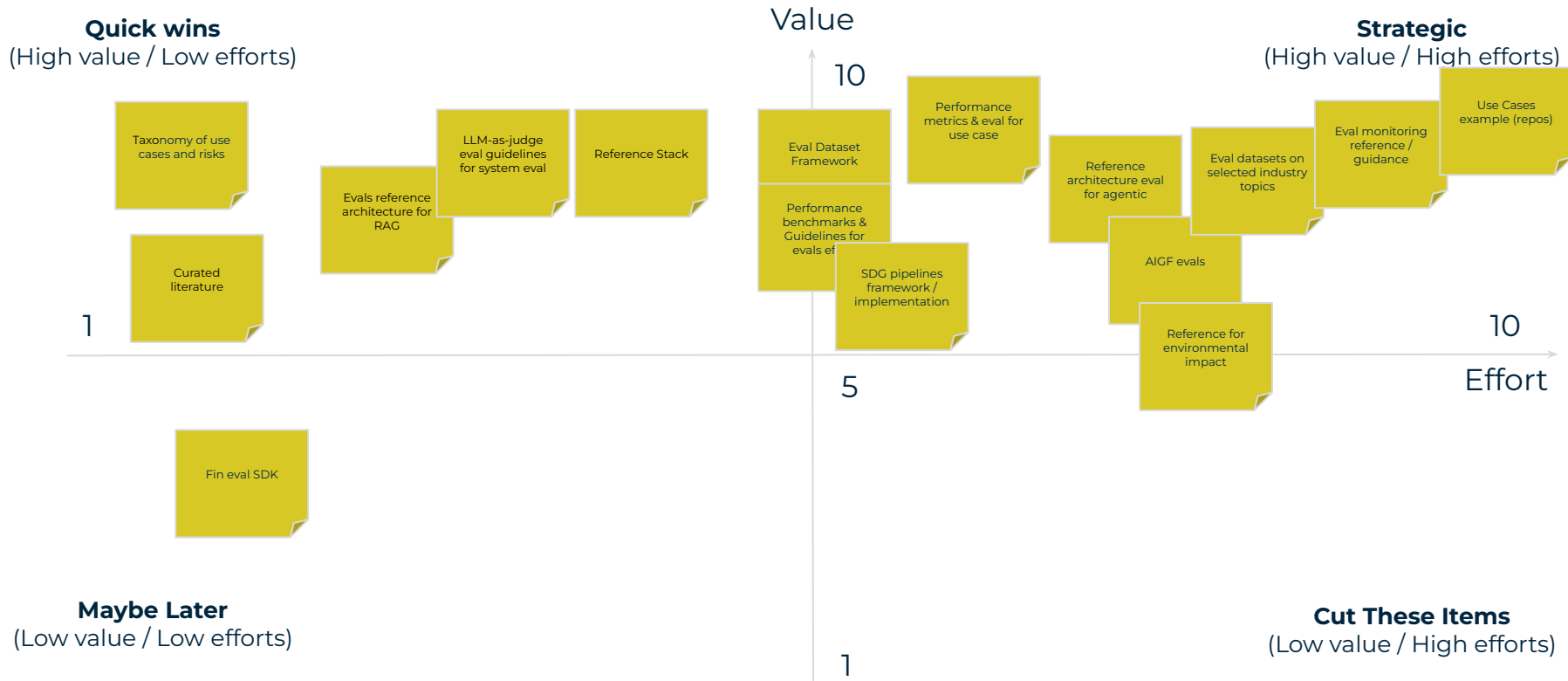
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DOES NOT



Artefact 2: Prioritizing Deliverables



Artefact 3: FINOS AI Eval Framework Roadmap



Artefact 4: FINOS Labs and Hugging Face

- **Agent Quickstart** (with pre-built connectivity to inference endpoints):
<https://github.com/finos-labs/Agent-QuickStart/blob/main/README.md>
- **Synthetic data:** <https://huggingface.co/finosfoundation/dataset>
- **Literature:** review this [recent paper](#), which surveys emerging approaches to evaluation in the generative AI era and frames key challenges FINOS members are solving for.
- **Use Cases:** Check out this [FS use cases list](#). Ideally we would like to see some of those become "sample agents connected to the techsprint prototype", so that we can show how AI-based, FS-specific workflows could be evaluated and tested at scale.



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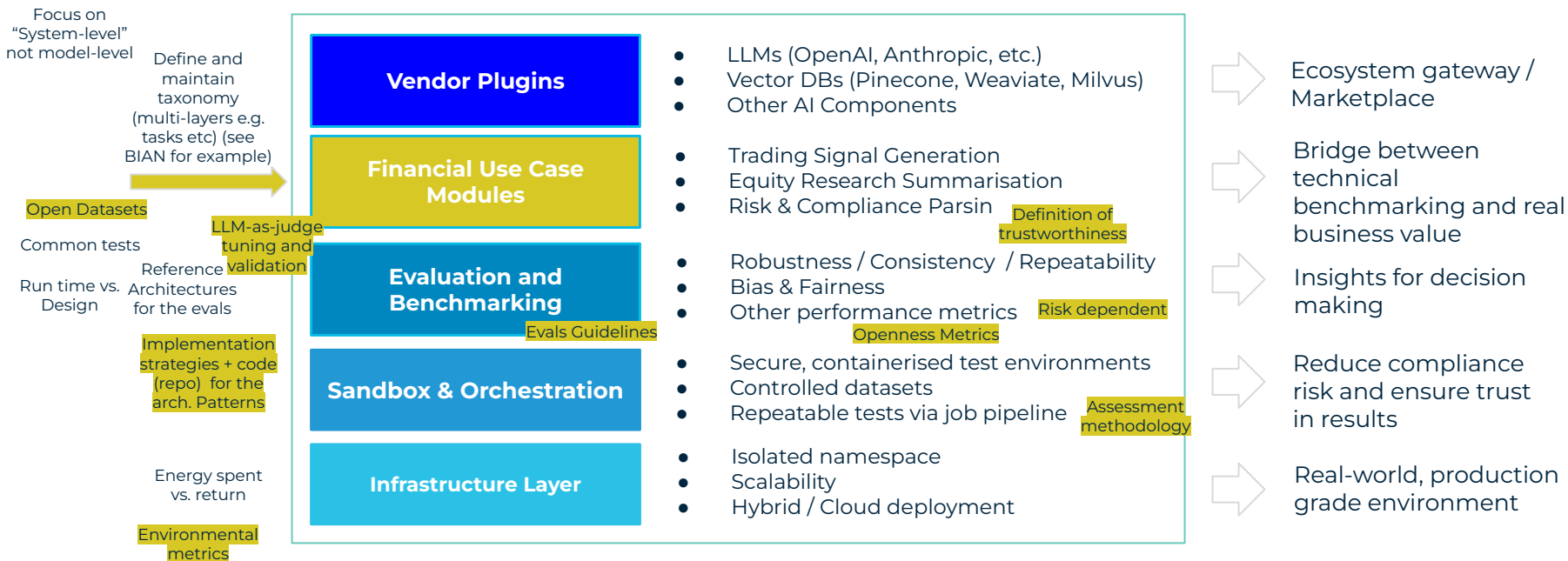
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Evaluation and Benchmarking Suite
Scoping Workshop (19/09/2025)

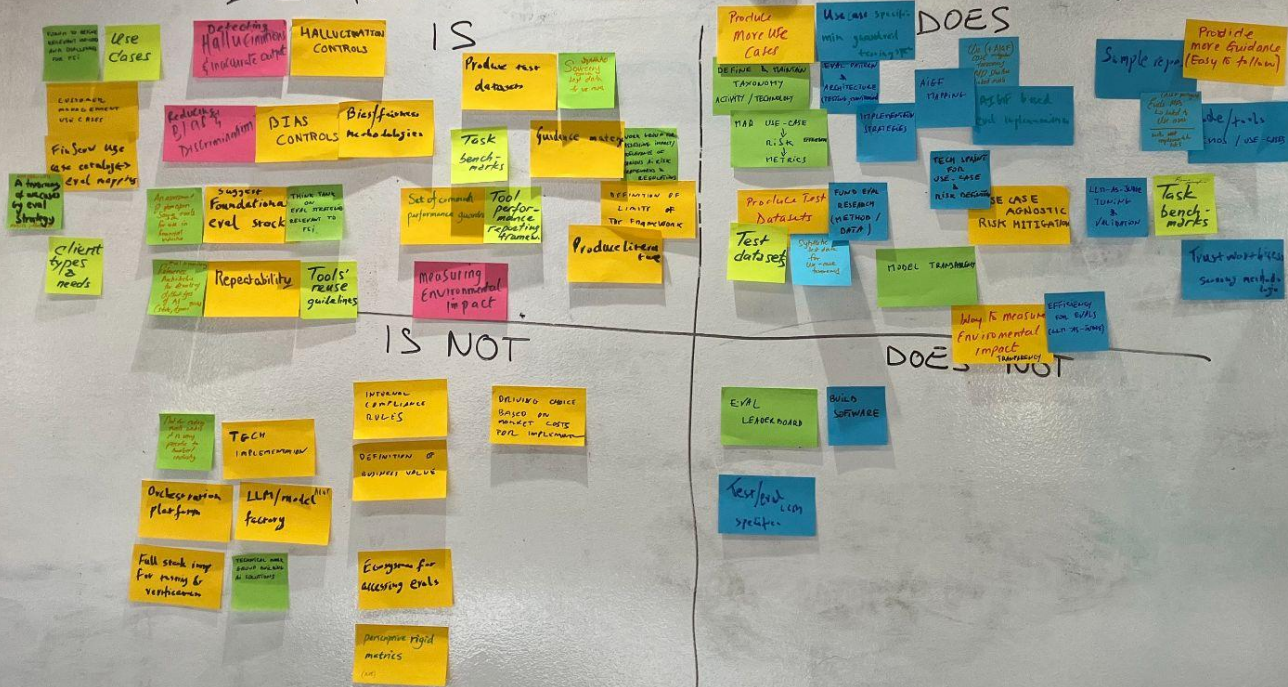


Evaluation and Benchmarking Suite

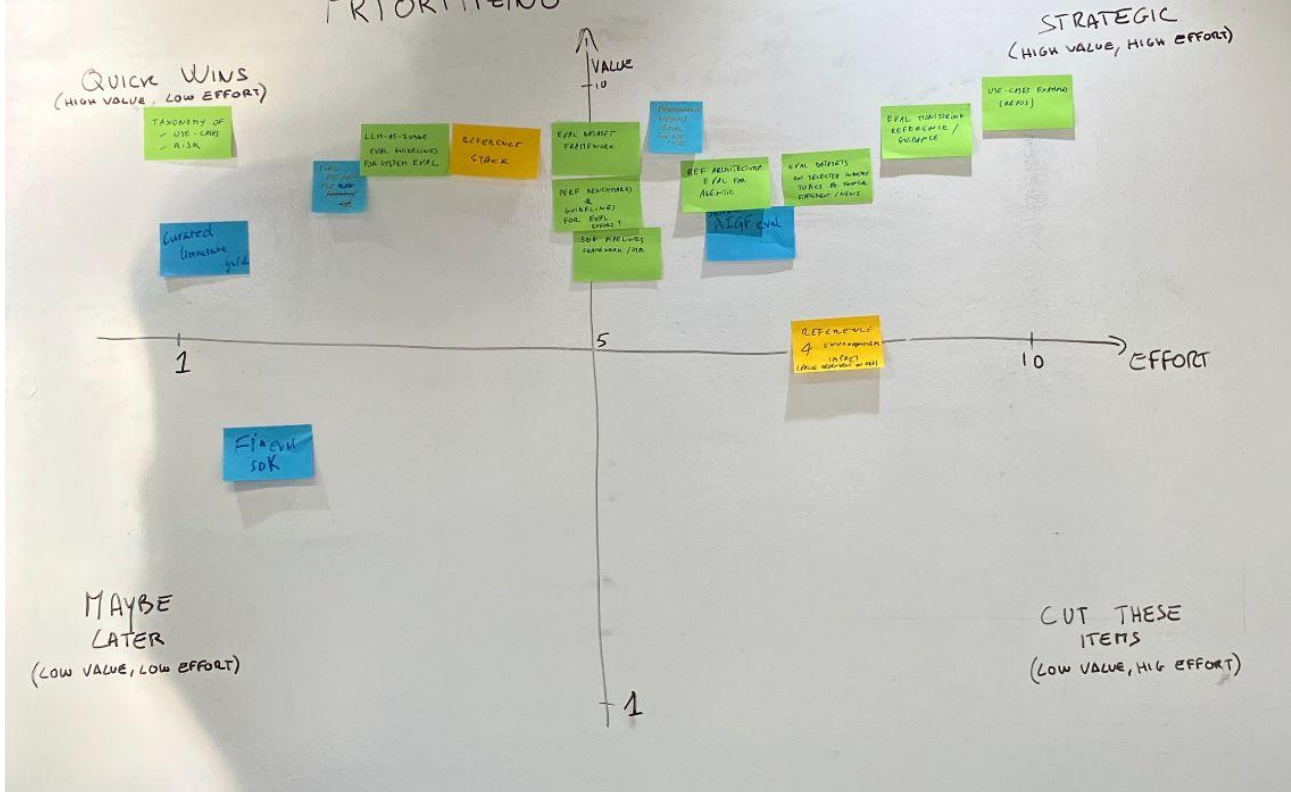
General comment: is this the right order? Maybe swap "Vendors" with "Use cases"?

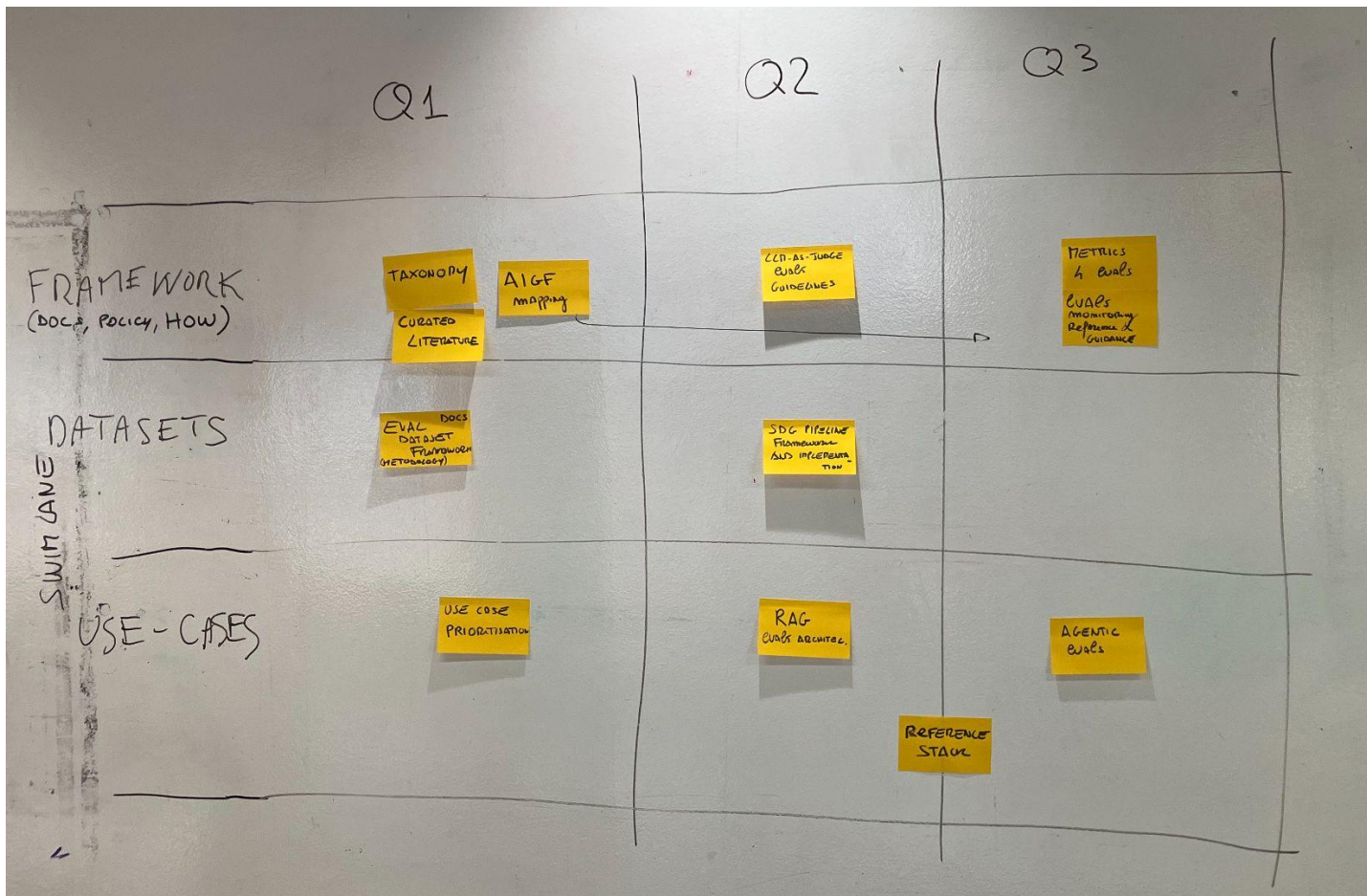


DEFINING THE INITIATIVE'S IDENTITY



PRIORITIZING DELIVERABLES





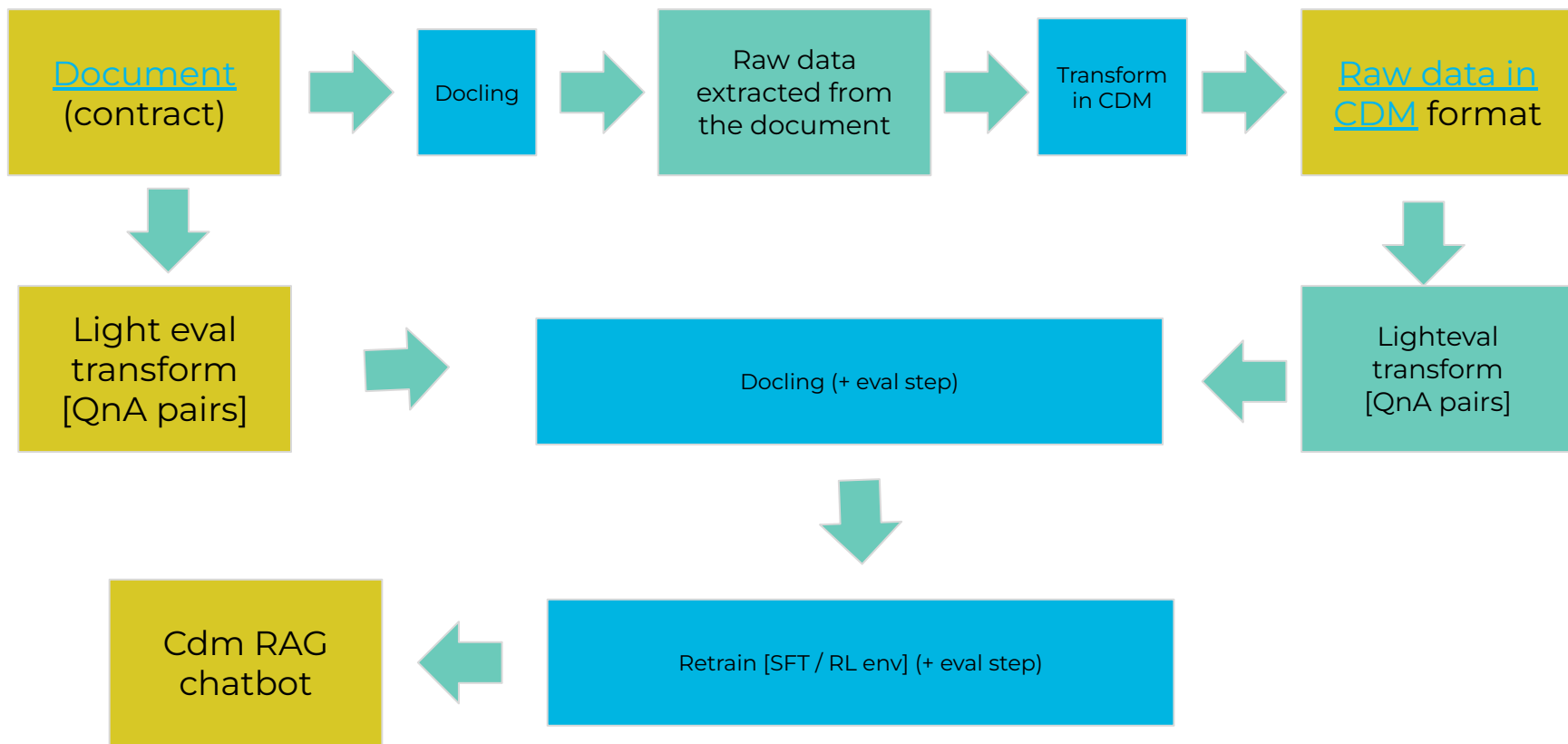


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Evaluation and Benchmarking Suite
Scoping Techsprint (20/09/2025)





Joseph:

- Transforming regulation into CDM schema for derivative reporting
 1. Dataset natural language queries generating CDM code snippet using RAG -> output Response
 2. Embed CDM reference documentation and retrieve based on generated code snippet -> output Citation
 3. Output -> Response with Citation
- Transform CDM (code) dataset to lighteval format
- Transform DORA to lighteval format
- Compress + finetune docling for spiky performance



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Appendix



Evals & Benchmarking (1/5)

GOAL: Establish a common, open, and transparent evaluation and benchmarking suite for Generative AI (GenAI) applications in financial services.

*"I believe that we all recognize that general-purpose AI benchmarks often fall short for the unique requirements of the finance sector. Therefore, a key direction for this initiative is to **enhance existing evaluation methods**. But there are likely other challenges we need to consider, including and not limited to:*

- *The fact that **current model-level evaluations often do not fully capture the complexity of AI systems**, which combine AI and non-AI components, **nor do they sufficiently address their behavior in specialized domains**.*
- *The **challenge** of evaluating LLM-based agents presents specific challenges, particularly in assessing their **cost-efficiency, safety, and robustness, and in developing fine-grained and scalable evaluation methods**.*
- *The pitfall of "**safetywashing**," where general capability improvements in evaluation might be misinterpreted as advancements in safety."*

Vincent Caldeira, Red Hat CTO for APAC, FINOS TOC

Evals & Benchmarking (2/5)

Now



Q4






1. Workshop

- 19 Sept London
- Project Scope Statement and “Must-Have” feature backlog

→ [Register here](#)

2. Techsprint

- 20 Sept London and Virtual   
- Hacking a common, open, and transparent evaluation & benchmarking suite for GenAI in financial services

→ [Register here](#)

Evals & Benchmarking (3/5)

GOAL: FINOS Labs hosts plenty of [use cases](#) that can be used as **"full working example of an agent with dependencies"**

Credit Risk Decisioning: [GitHub repo file](#)



```
Code Blame Raw Copy Download Edit View Source
1  import os
2  import random
3  import pymupdf4llm
4  import boto3
5  from botocore.exceptions import ClientError
6  import json
7
8
9  input_file = "input.pdf"
10
11  SYSTEM_PROMPT = """
12  You are a credit risk analyst. You will be provided with a credit risk policy and an application.
13  Your job is to rate the credit risk of the applicant based on the policy. You should
14  rate the credit risk on a scale from 1 to 5, where 1 is the lowest risk and 5 is the
15  highest risk. You should also provide a brief assessment of the applicant's
16  creditworthiness, and suggest remedies if the credit risk is high. Stick to the facts
17  available in the credit risk policy and application."""
18
19
20  def get_results(policy, application, credit_score):
21      try:
22          client = boto3.client(service_name="bedrock-runtime", region_name="us-west-2")
```

Evals & Benchmarking (4/5)

Our partner **NayaOne** has contributed a large sample of **CDM synthetic trade records** to power experimentation:

- 10 product types + 21 sub-categories (swaps, options, forwards, exotics)
- Strong emphasis on options, energy, and metals — reflecting real market activity
- 895 unique market identifiers to ensure diversity + realism

The commodity subset is now openly available on [Hugging Face](#)

[illegible]

Evals & Benchmarking (5/5)

We are preparing tooling for the techsprint participants

