



Bridging the security, privacy and data protection gap for smaller enterprises in Europe

## Project Overview



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101021659.

# The European Strategy for Data

“ Create a **single market for data** that will ensure Europe’s global competitiveness and data sovereignty.

Common European data spaces will ensure **more data are available for use**, while keeping companies and individuals **in control of their data**. ”



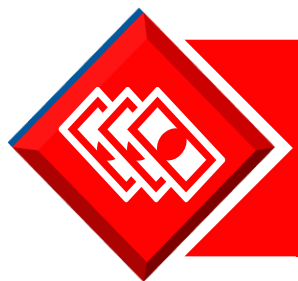


- SMEs represent 99% of all EU businesses (25M SMEs)
- Created around 85% of new jobs (2/3 of private sector)



## Role of SMEs in the Data Value Chain

- Data owner, data acquisition, data aggregator, data storage, data analysis, data user, data services



## Data Economy Value

- 4% impact on EU GDP & 15.7% growth rate in 2020
- SME/MEs accounted for 60% of the increase



SENTINEL **bridges the security and personal data protection gap** for small enterprises in Europe, by raising awareness and boosting their cyber capabilities through innovation at a cost-effective level.

This vision will be realized by **integrating tried-and-tested security and privacy technologies** into a unified digital architecture and then applying disruptive **intelligence for compliance**.

Combined with a well-researched **methodology for application and knowledge sharing** and a wide-reaching plan for **experimentation for innovation**, SENTINEL will help small enterprises become more secure and safeguard their and their customers' assets.





## PROJECT CONSORTIUM

- 13 partners



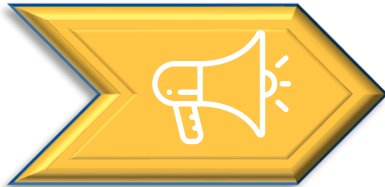
## PROJECT TYPE

- Innovation Action



## MAX EU CONTRIBUTION

- € 3,998,982.50



## START DATE

- 1 June 2021

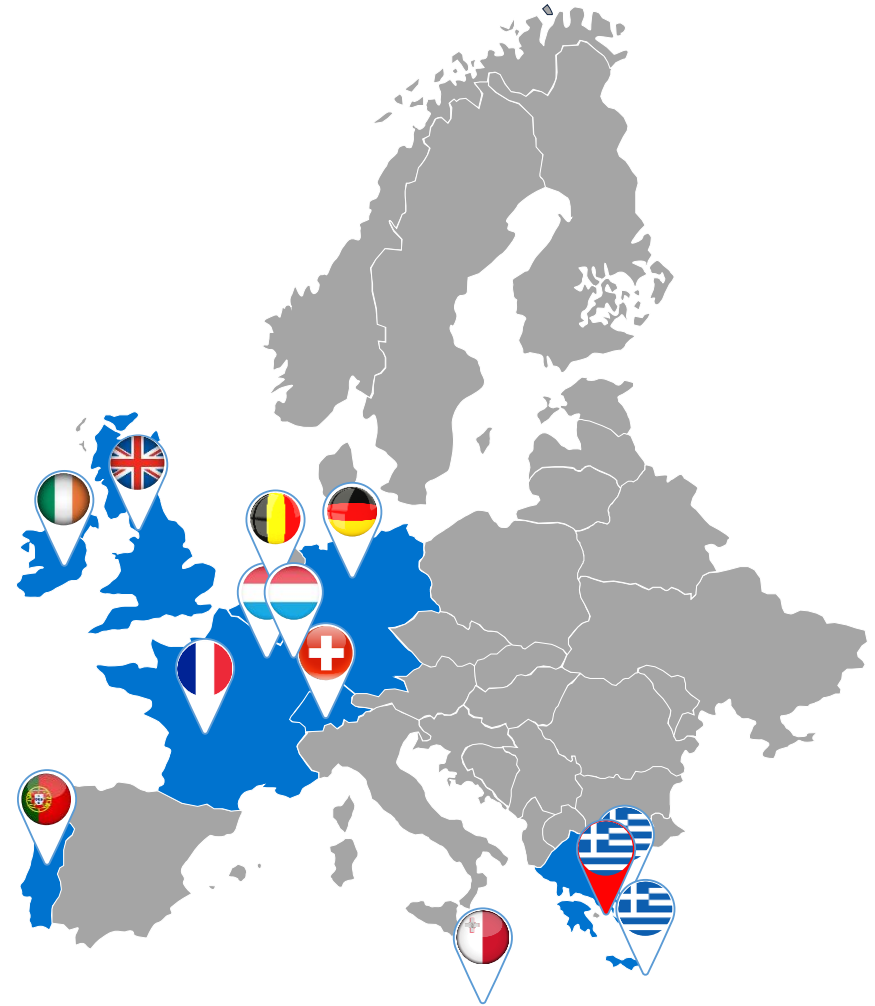


## DURATION

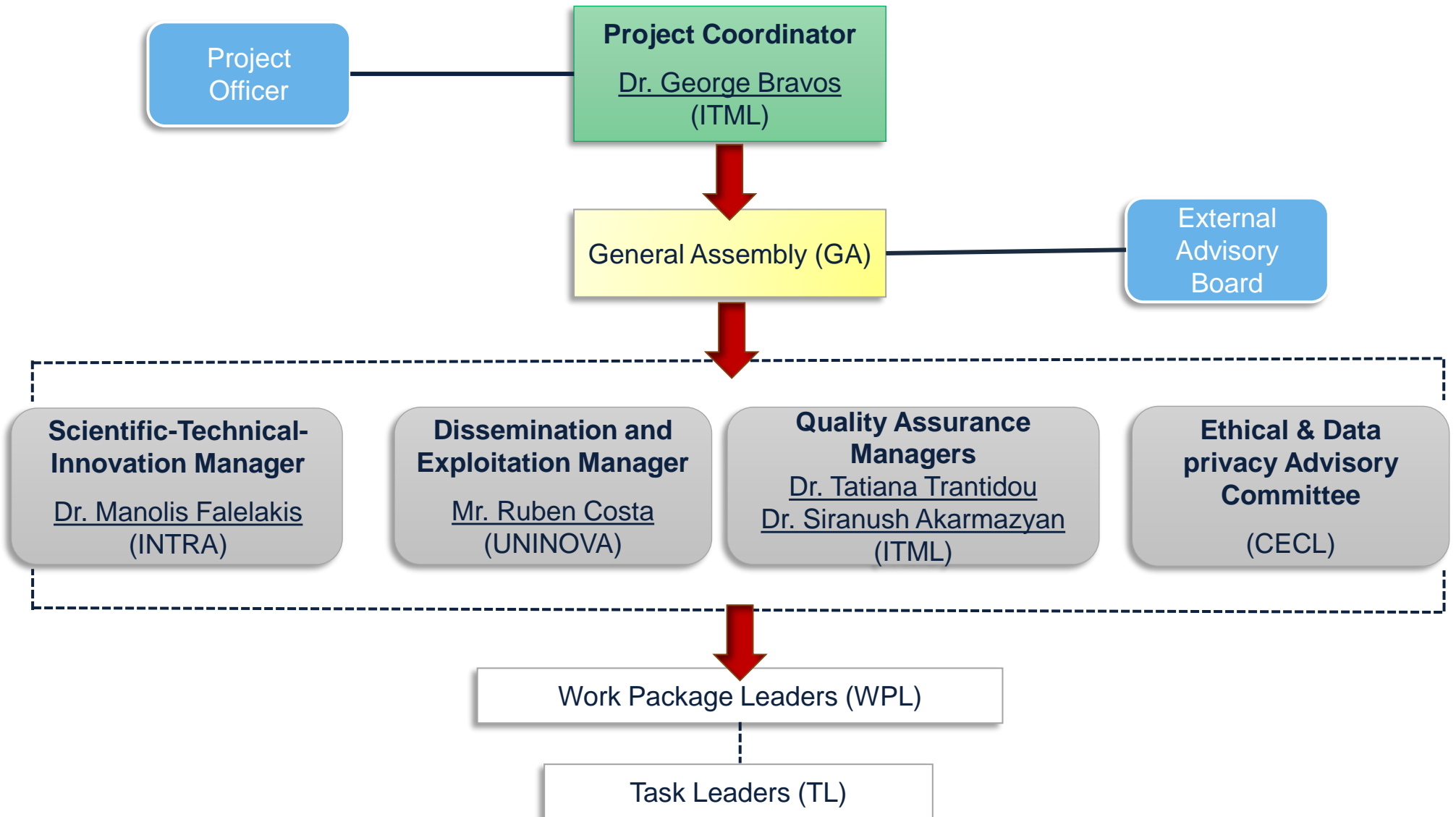
- 36 months



1. INFORMATION TECHNOLOGY FOR MARKET LEADERSHIP **(ITML)**
2. LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY **(LIST)**
3. INSTITUTE OF DIGITAL INNOVATION AND RESEARCH LTD **(IDIR)**
4. INTRASOFT INTERNATIONAL SA **(INTRA)**
5. SPHYNX TECHNOLOGY SOLUTIONS AG **(STS)**
6. AEGIS IT RESEARCH GMBH **(AEGIS)**
7. EREVNITIKO PANEPISTIMIAKO INSTITOUTO TILEPIKOINONIAKON SYSTIMATON **(TSI)**
8. AIRBUS CYBERSECURITY SAS **(CCS)**
9. UNINOVA-INSTITUTO DE DESENVOLVIMENTO DE NOVAS TECNOLOGIAS-ASSOCIACAO **(UNINOVA)**
10. CLINGENICS (UK) LTD **(CG)**
11. TRISTONE INVESTMENT GROUP LTD **(TIG)**
12. KENTRO EVROPAIKOU SYNTAGMATIKOU DIKAIΟ IDRYMA THEMISTOKLI KAI DIMITRI TSATSOU **(CECL)**
13. FOCAL POINT **(FP)**



# Project Management Structure



# SENTINEL Objectives and drivers

1

Develop and support an end-to-end digital Privacy and Personal Data Protection (PDP) compliance framework and Identity Management System (IdMS)

2

Provide scientific and technological advances in SMEs/MEs' data protection compliance assessment, orchestrated towards the comprehensive digital Privacy and PDP compliance framework for SMEs/MEs

3

Provide novel tools and services for enabling highly-automated PDP compliance in SMEs/MEs

4

Validate SENTINEL framework in real-world settings via use cases driven by complementary industries

5

Consolidate international and European links, raise awareness and ensure the technology transfer of project's results

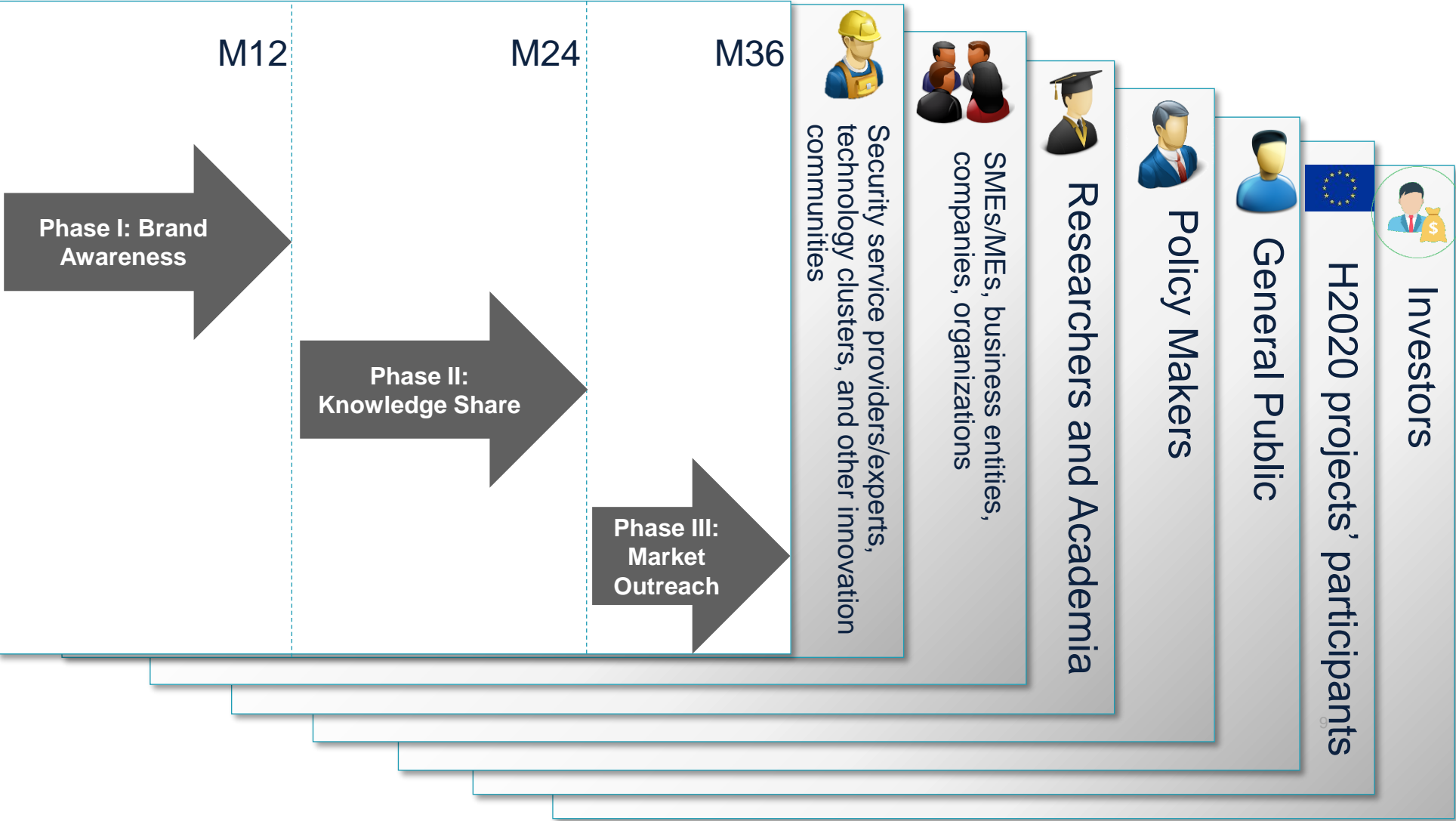
6

Boost the effectiveness of the EU data economy by offering high TRL solutions (6-7)











# SENTINEL Stakeholders and their Engagement Phases



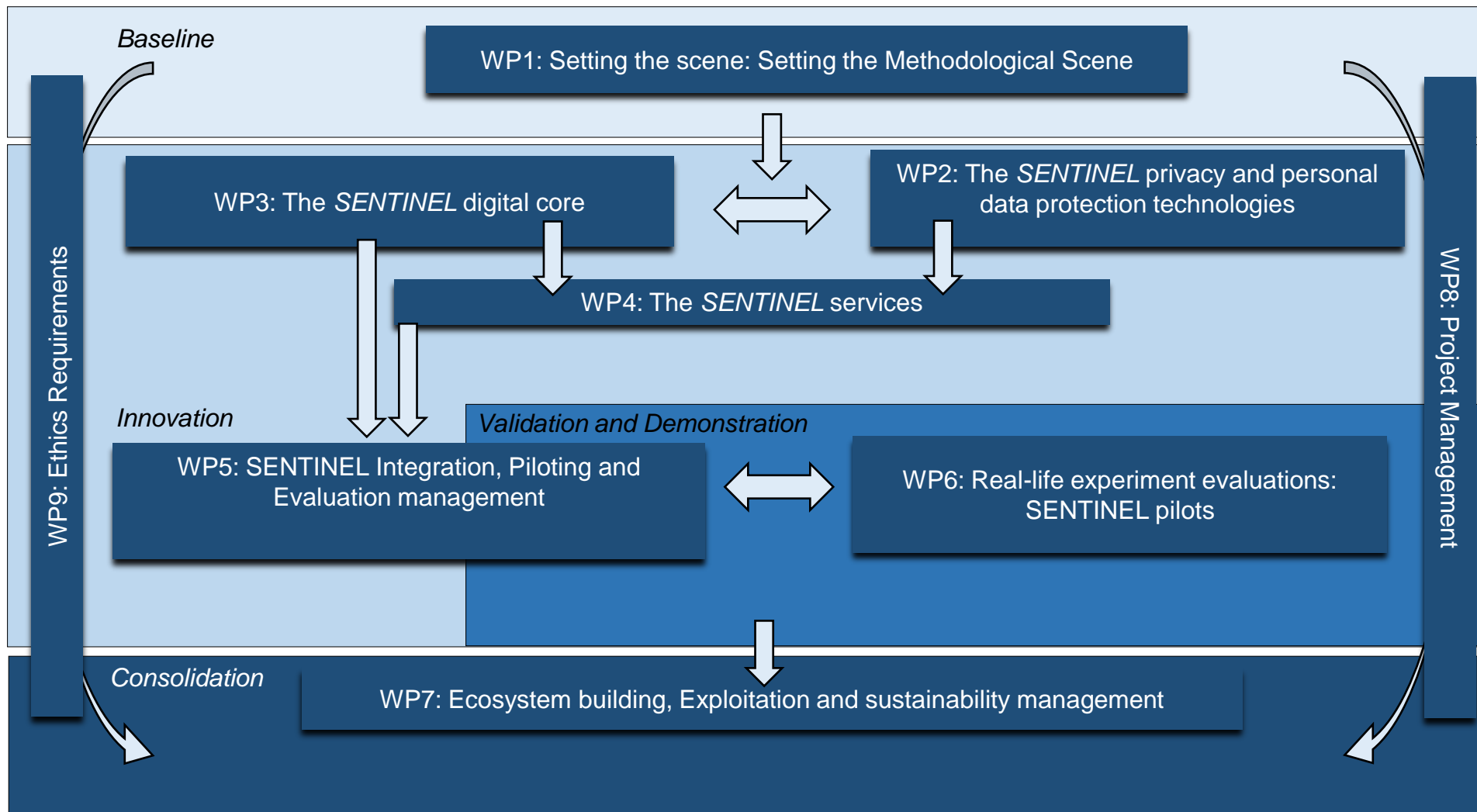
# SENTINEL Key Performance Indicators (KPIs)

**K**  
**P**  
**I**  
**S**

-  > 20 novel cybersecurity services and tools utilized and integrated > 10 dedicated to personal data protection and privacy assurance
-  Contribution to > 6 standards
-  > 8 Digital Hubs and > 10.000 SMEs/MEs engaged
-  > 40% improved privacy compliance efficiency
-  > 10 critical aspects addressed (maintenance and software update) for long-term sustainability
-  > 40% reduction in compliance-related costs via automation

**27 Technical**  
**17 Impact**  
**25 Dissemination**





# SENTINEL Milestones



## MS1

Project's baseline

- System architecture
- Dissemination & exploitation plans
- Quality and project management

WP1, WP7, WP8

M6

## MS6

Consolidation

- Final framework's evaluation
- Final business plan
- Final dissemination and exploitation reports

WP5, WP6, WP7, WP8

M12

## MS2

Innovation Flame

- First version of SENTINEL technologies
- Dissemination and exploitation activities

WP2, WP3, WP4, WP5, WP7, WP8



## MS5

Demonstration Fire

- Final version of SENTINEL integrated framework

WP3, WP4, WP5, WP6

M24

M36

M30

M1  
Kick off



## MS4

Demonstration Flame

- First execution round of pilots
- SENTINEL framework evaluation

WP6, WP7

M18

## MS3

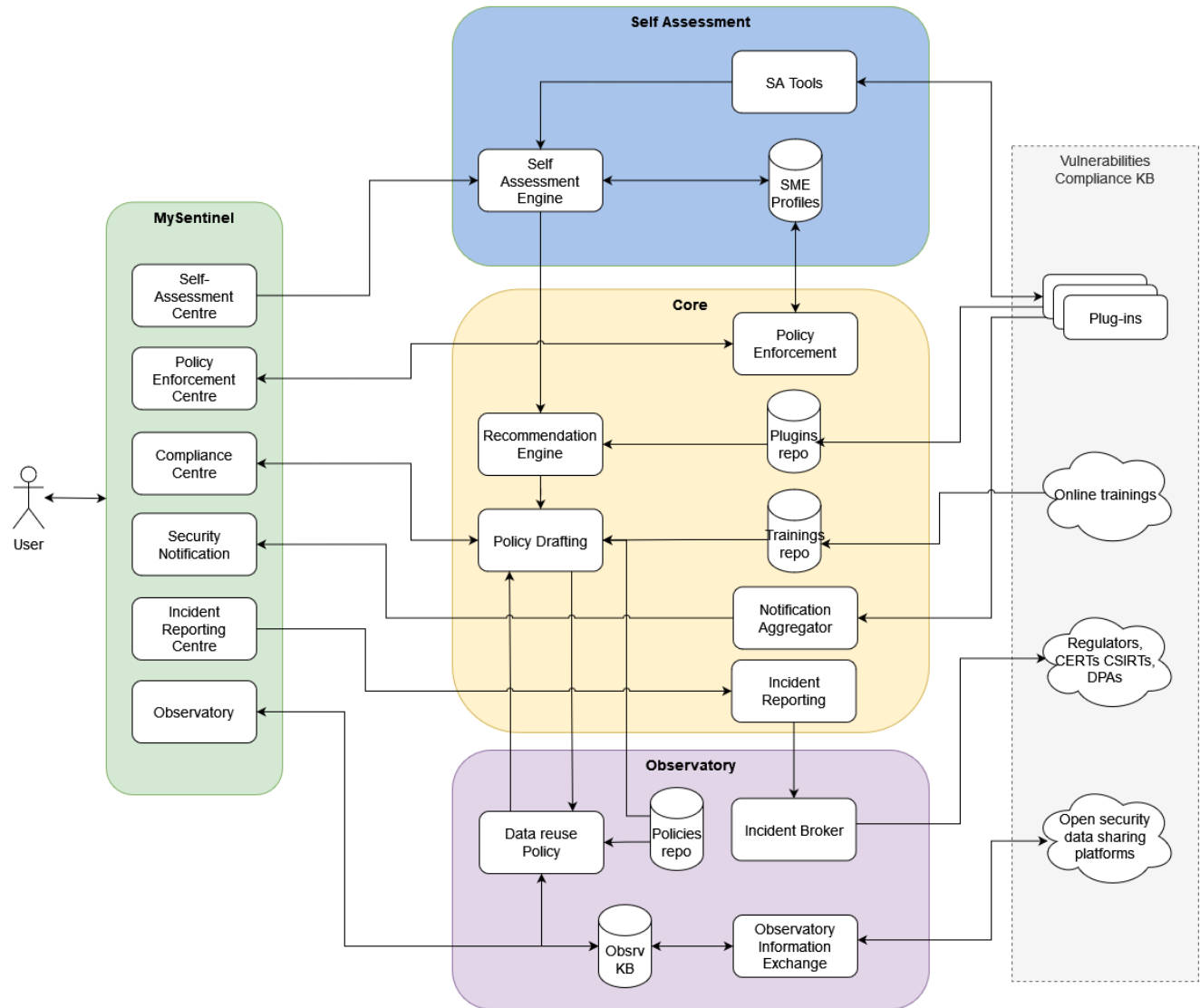
Innovation Fire

- First version of integrated platform of SENTINEL MVP
- Dissemination and exploitation reports

WP2, WP3, WP4, WP5, WP7



## Main characteristics: Contexts Plugins



SME registration and profiling

Completing a self-assessment workflow

Acquiring policy recommendations

Receiving security notifications

Policy enforcement monitoring

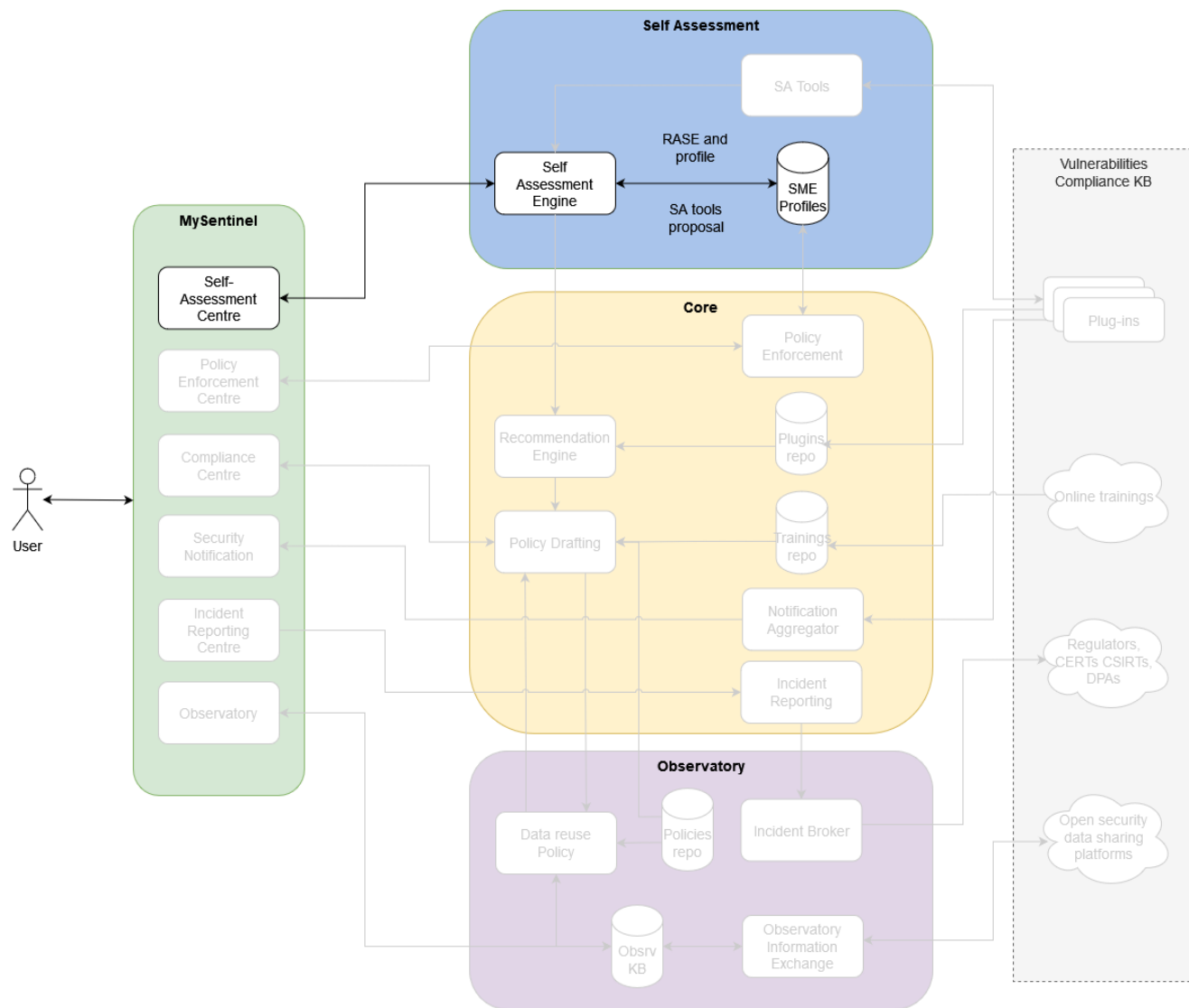
Consulting the Observatory Knowledge Base

Incident reporting and sharing

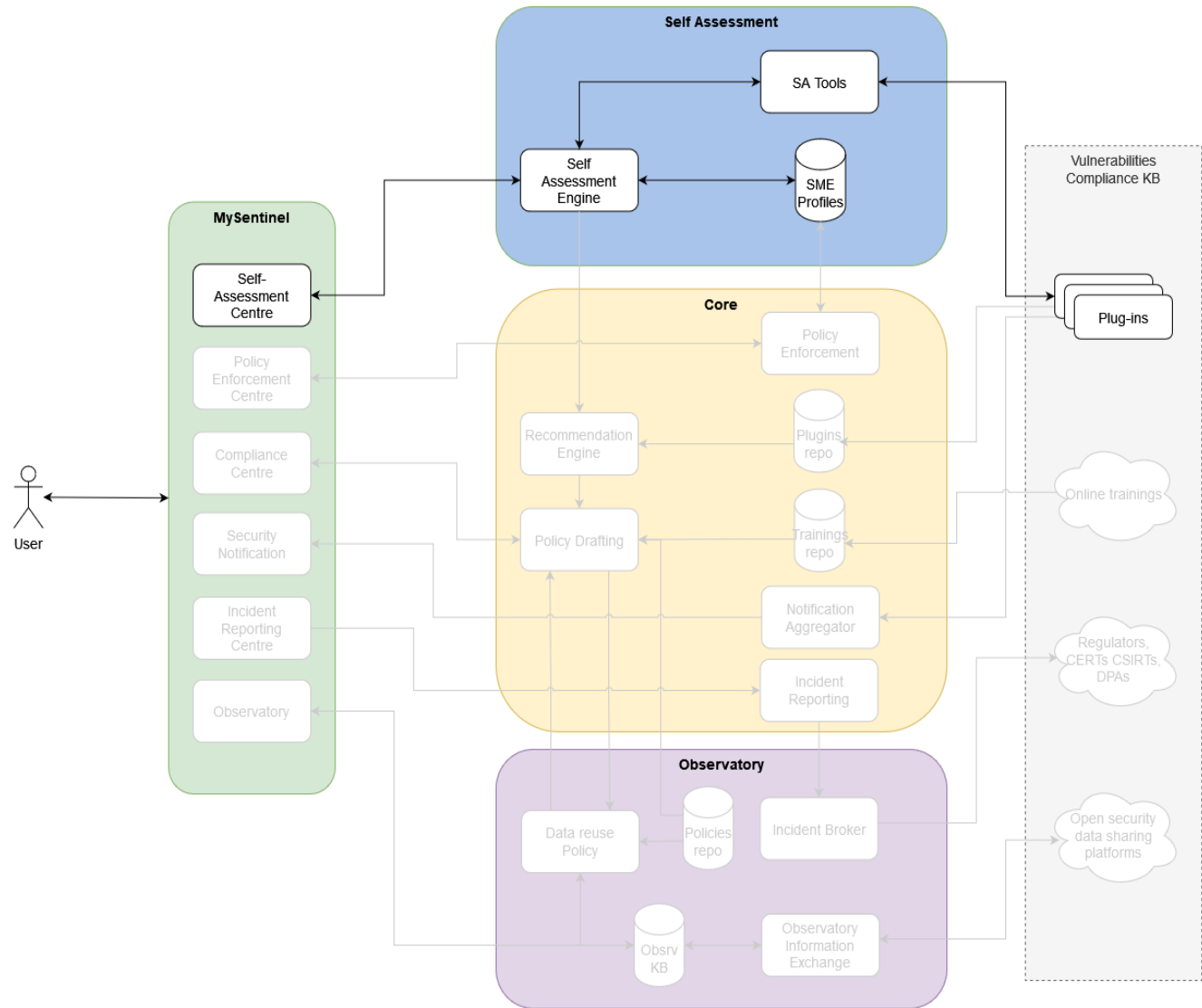


The SME representative registers the company and fills in a related questionnaire.

The system stores a profile of the company.



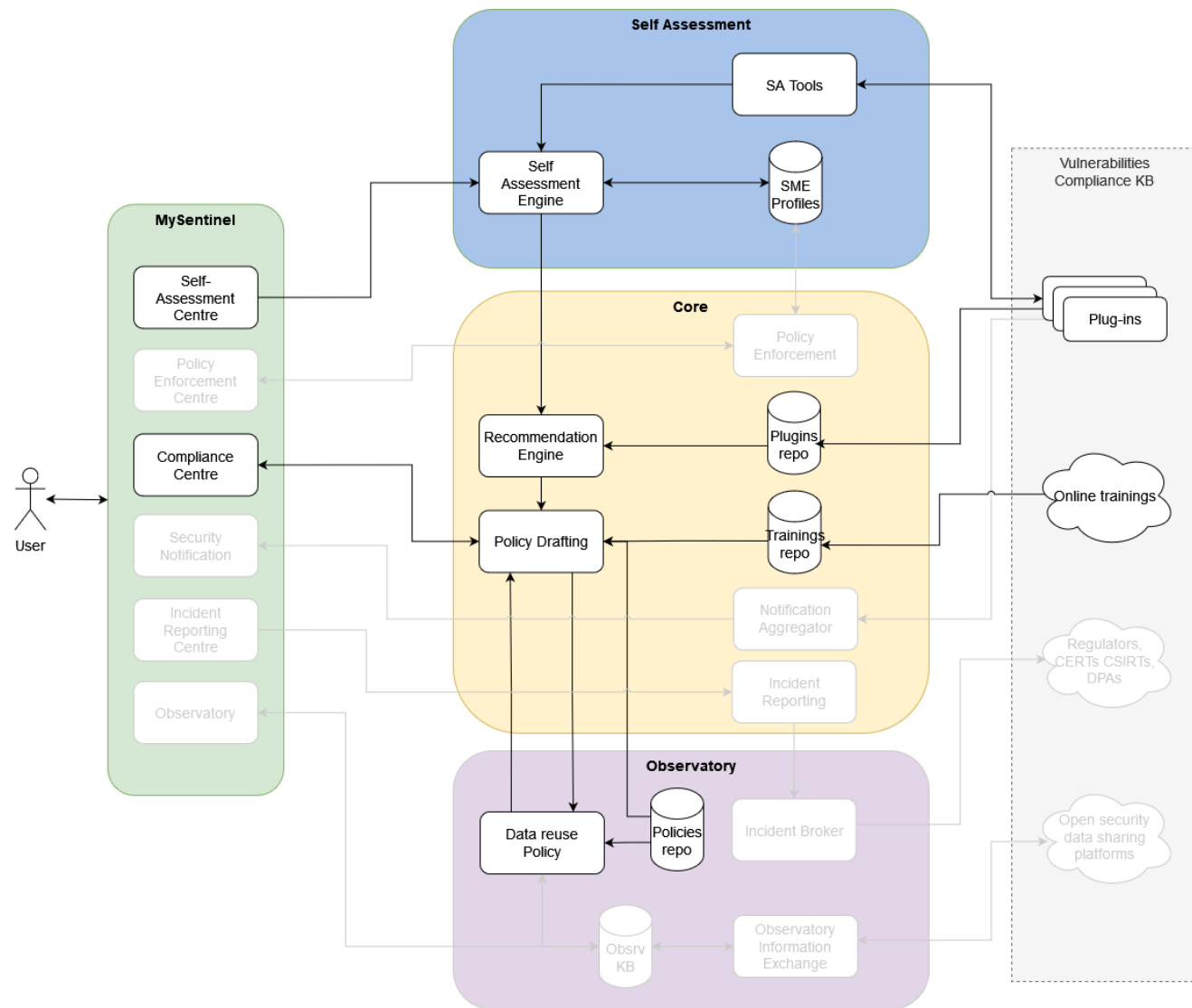
The user completes a self-assessment workflow that has been proposed by the SENTINEL platform, adjusted to the SME profile.



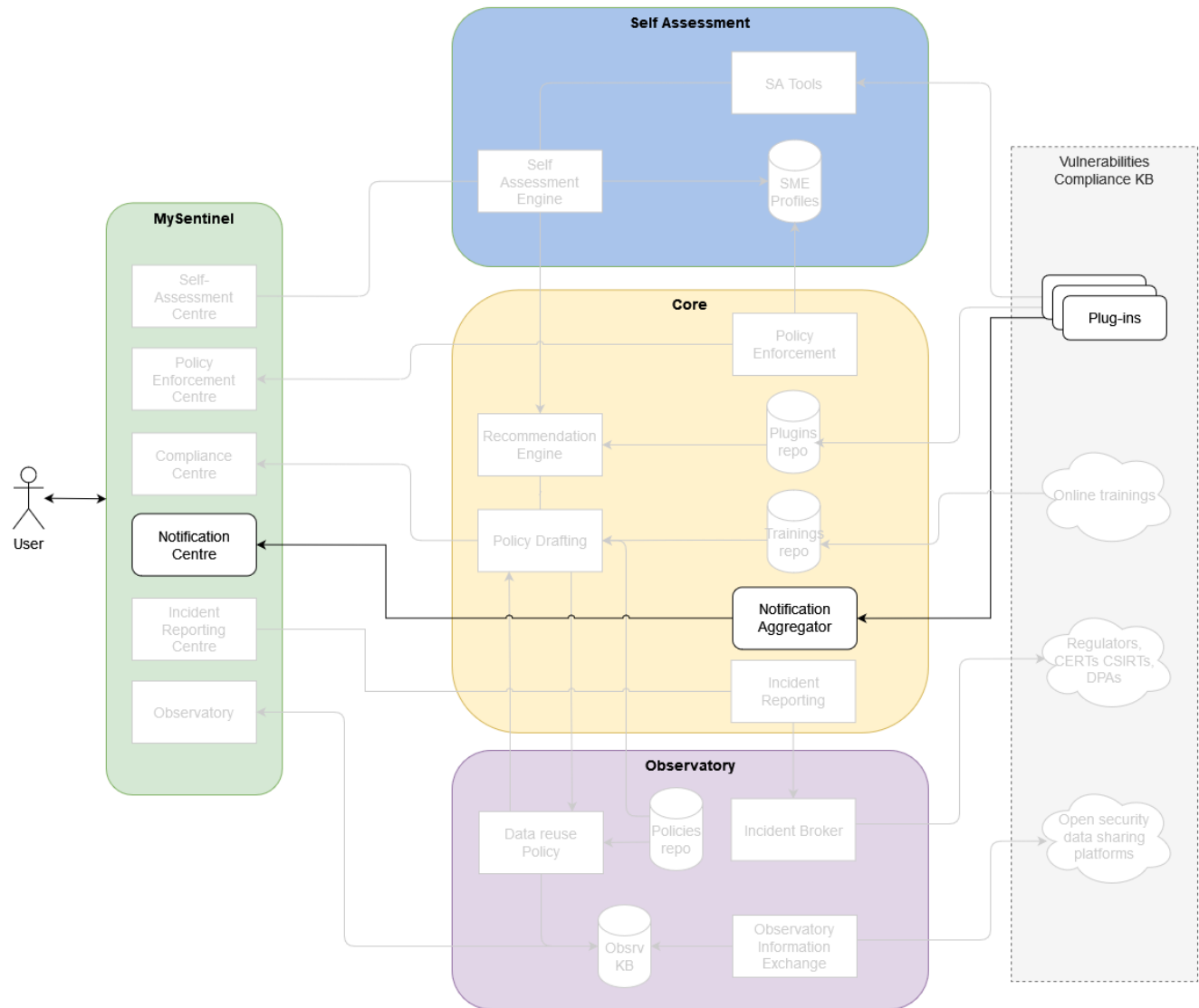


The SME representative fills in the company security profile and performs related self-assessment tasks indicated by the system.

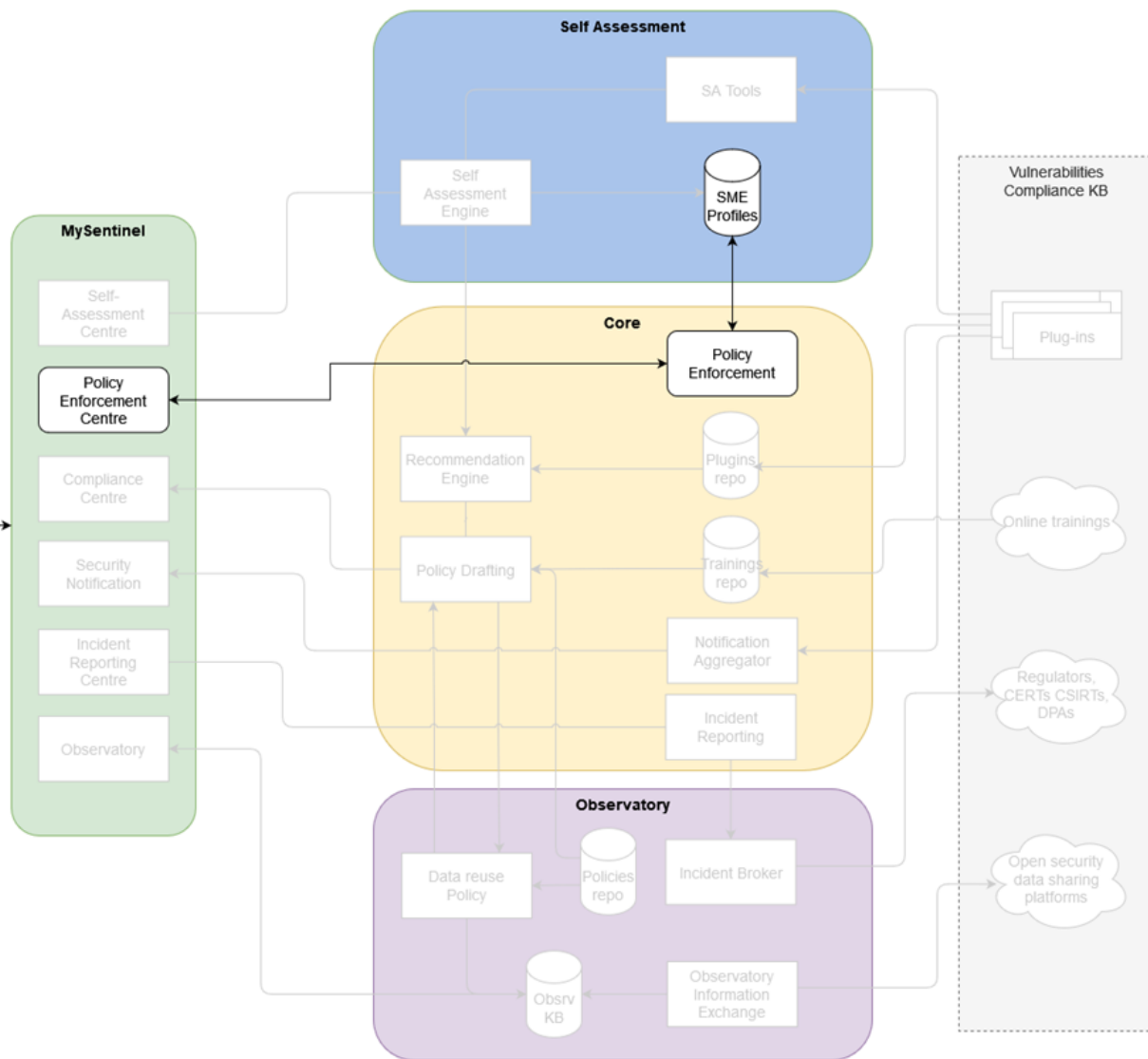
The system returns a tailor-made set of security policies.



The system detects a CS or PDP incident that affects an SME and alerts the SME representative so that they attend to it.

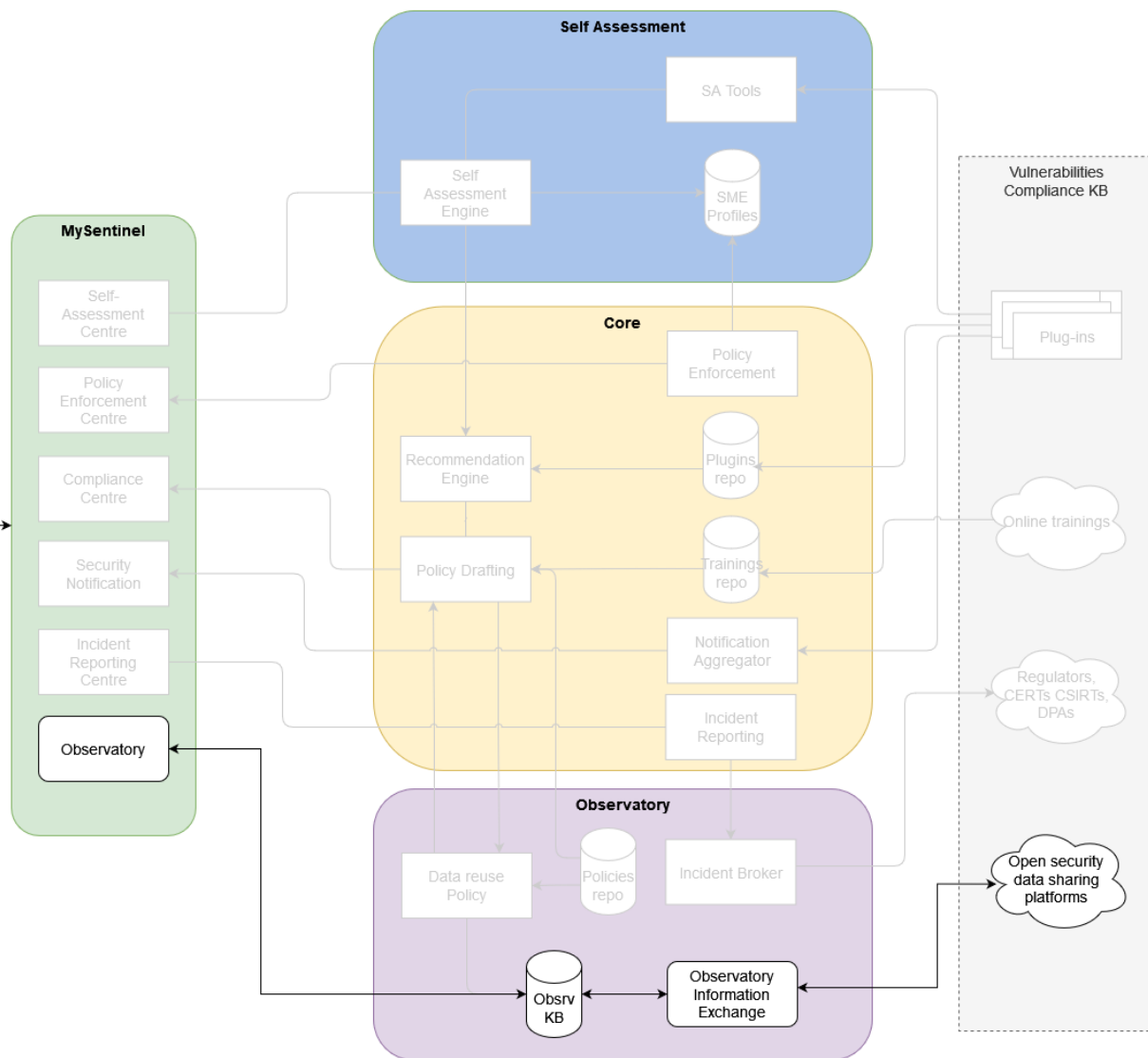


The SME representative provides an update to the system concerning the status of implementation of policies they have received as recommendations from the SENTINEL platform.

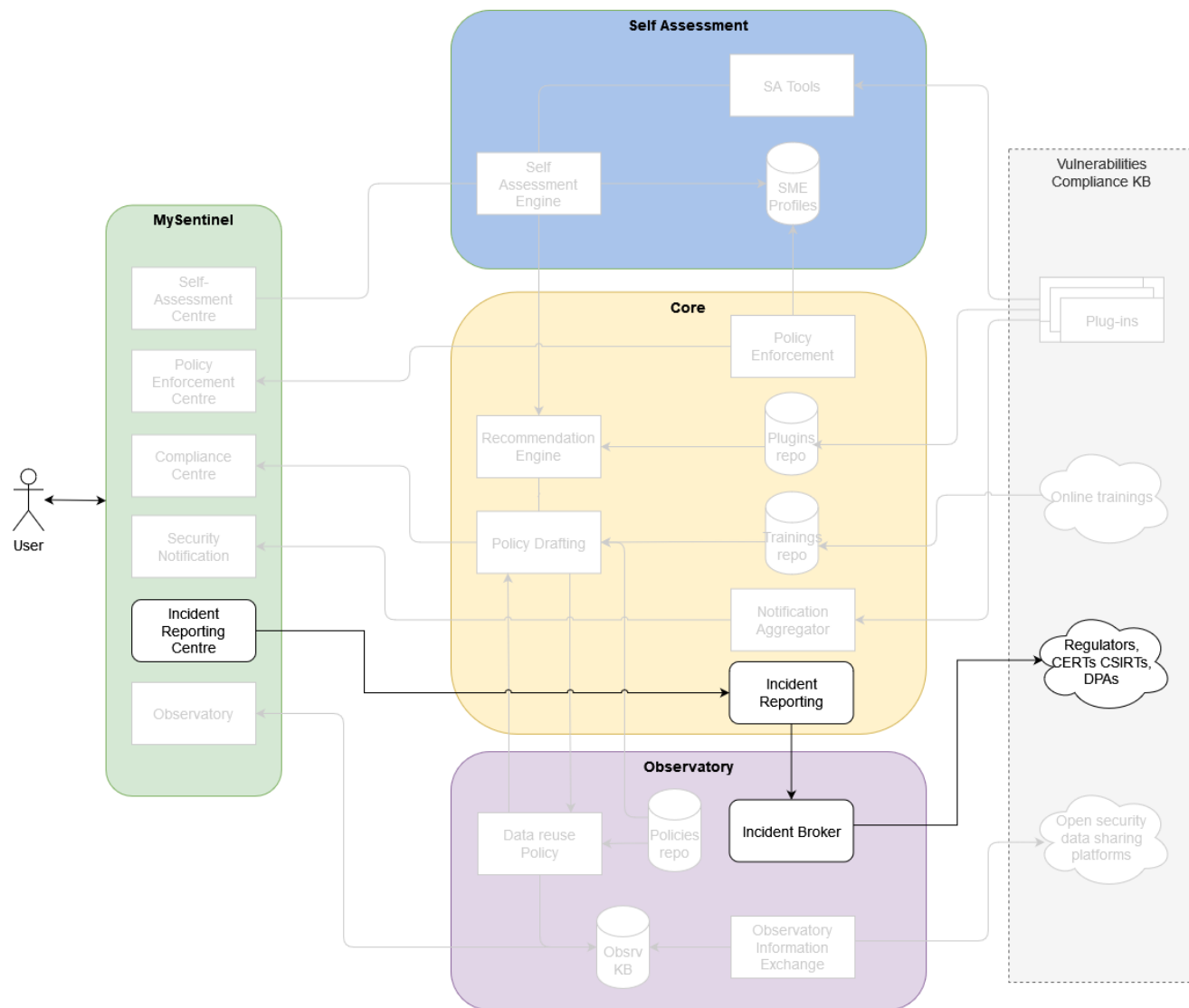


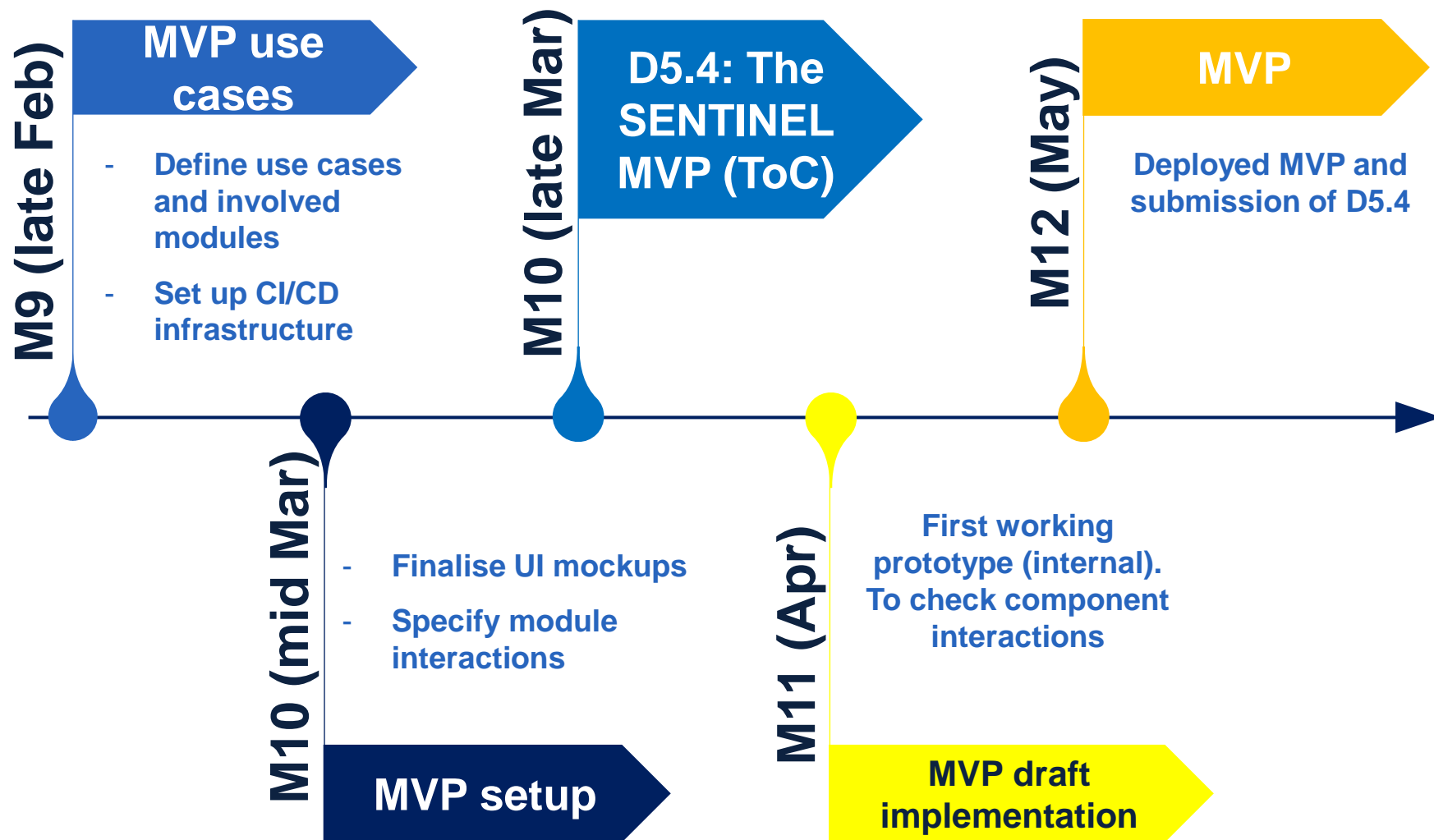
The SME browses the **SENTINEL Observatory Knowledge Base** and accesses information about recently identified data and privacy breaches.

The Knowledge Base is continuously updated and synchronised with external resources.



A security incident has been detected and the SME wants to report and share it with appropriate response teams and/or open security data platforms.

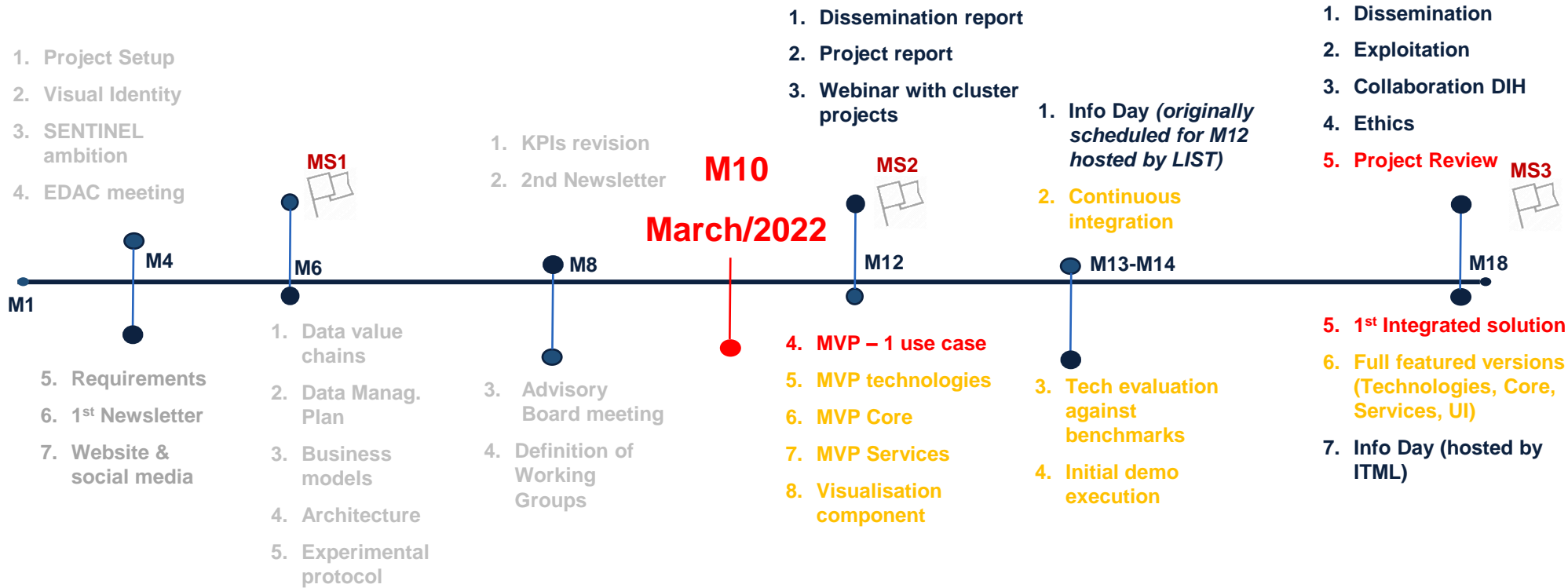




# SENTINEL Roadmap up to M18

Project-related achievements

Technical-related achievements





**[www.sentinel-project.eu](http://www.sentinel-project.eu)**



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