



Open Call 2

Webinar 1 | 08/10/2025
Brian Lee (TUS), Antonio Damasceno (F6S)



Funded by the European Union

CALL & TOPIC

HORIZON-CL3-202
2-CS-01-01:
HORIZON
Innovation Actions



BUDGET

€5.6 million project budget

From which up to €360K will be granted
to innovators in the Open Call #2

PROJECT DURATION

Oct 2023

9 months

Sep 2026



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13 Partners

7 Countries

- **TUS**, Ireland [Coordinators]
- **GMV**, Spain
- **MUNI**, Czechia
- **SLP**, Ireland
- **F6S**, Ireland
- **JR**, Austria
- **UMU**, Spain
- **JAMK**, Finland
- **ALIAS**, Spain
- **Inforcert**, Italy
- **MURC**, Spain
- **KEMEA**, Greece
- **MONT**, France



*Royal Holloway And Bedford New College [associated partner]

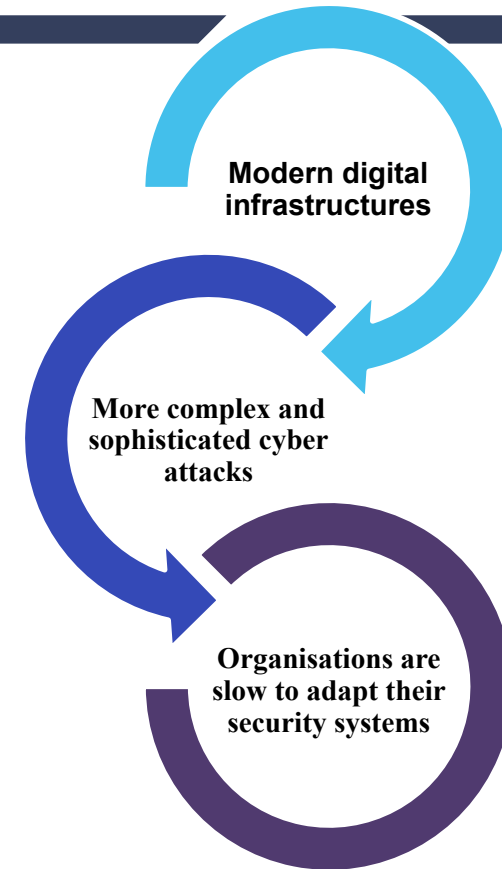


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Challenges

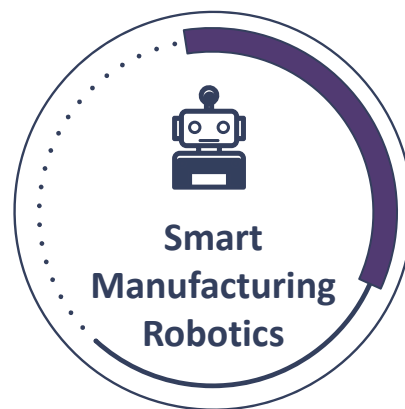
Modern digital infrastructures are complex and dispersed, leading to numerous attack vectors. Advanced persistent threats (APTs) target organizations with sophisticated, multi-vector attacks.

Many organizations are slow to adapt, needing modern security models like Zero Trust (ZT) and Secure Systems Edge (SSE) to manage these evolving threats.



Resilmesh project aims to deliver an open and extensible security operations platform with advanced cyber situational awareness and detection/response capabilities to manage security and resilience in complex and dispersed digital services and infrastructures

FOCUS ON **THREE STRATEGIC INFRASTRUCTURE CATEGORIES**



- >> + **5 Open Call** use cases
- >> **8** pilots in total
- >> **2** Open Calls



Project Specific Objectives

Improving end-to-end data aggregation and security control interoperability in dispersed digital infrastructures

Giving CSIRTs better awareness of the service and asset dependencies of their network

Helping CSIRTs to build cyber resilience capacity

Developing AI based algorithms and tools for early and ongoing attack detection and prediction

Developing a situation assessment system to view and forecast network level risk



Open Call #2

**Applications
until
Nov 5th 5PM CET**

**Evaluation
until
Nov 15th**

**Onboarding
in
December**

Challenges

**Extensions to
Resilmesh via the
collaboration mesh
IRP's**

**New Analytic
Algorithms and
Architectures**

BUDGET

Open Call 1 budget: €360K

**5 projects
Up to 72K per project**

Projects' participation

Jan 2026

9 months

Sep 2026



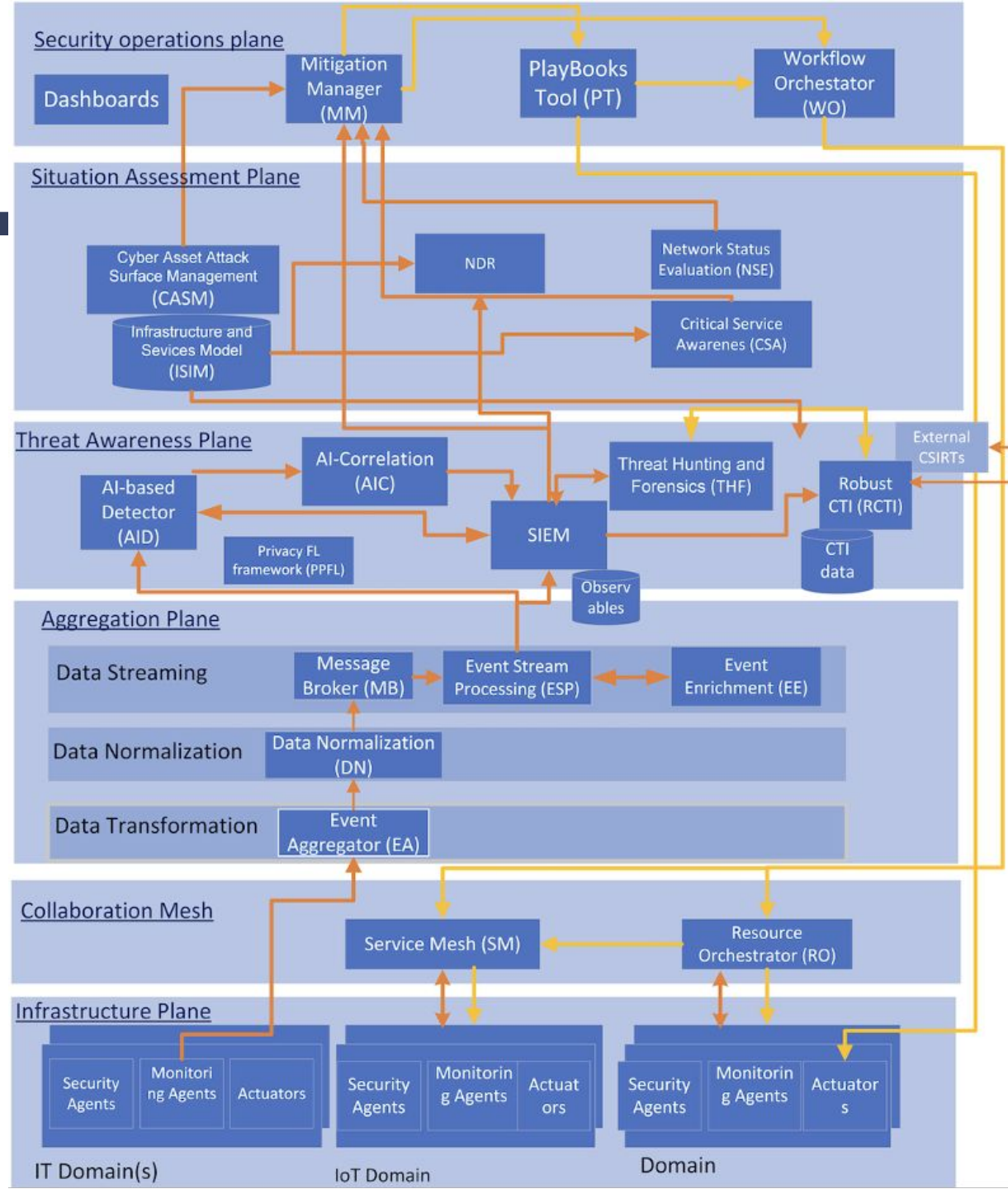
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High level Architecture

- **Aggregation Plane** - collects, aggregates, normalizes and streams data and events from multiple heterogeneous sources including logs, IDS, network
- **Collaboration Mesh** - collaborating underlay enable the operation of the system across the dispersed digital infrastructure
- **Threat Awareness Plane**- suite of analytics functions to manage event correlation and alarming, attack detection and prediction, CTI sharing and threat hunting.
- **Situation Assessment Plane** - captures dependencies between services onto the IT/OT resources that realise them; visualises the current network risk status ; forecasts the near-term situation evolution
- **Security Operations Plane** – automates and orchestrates response and mitigation actions



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High level Architecture

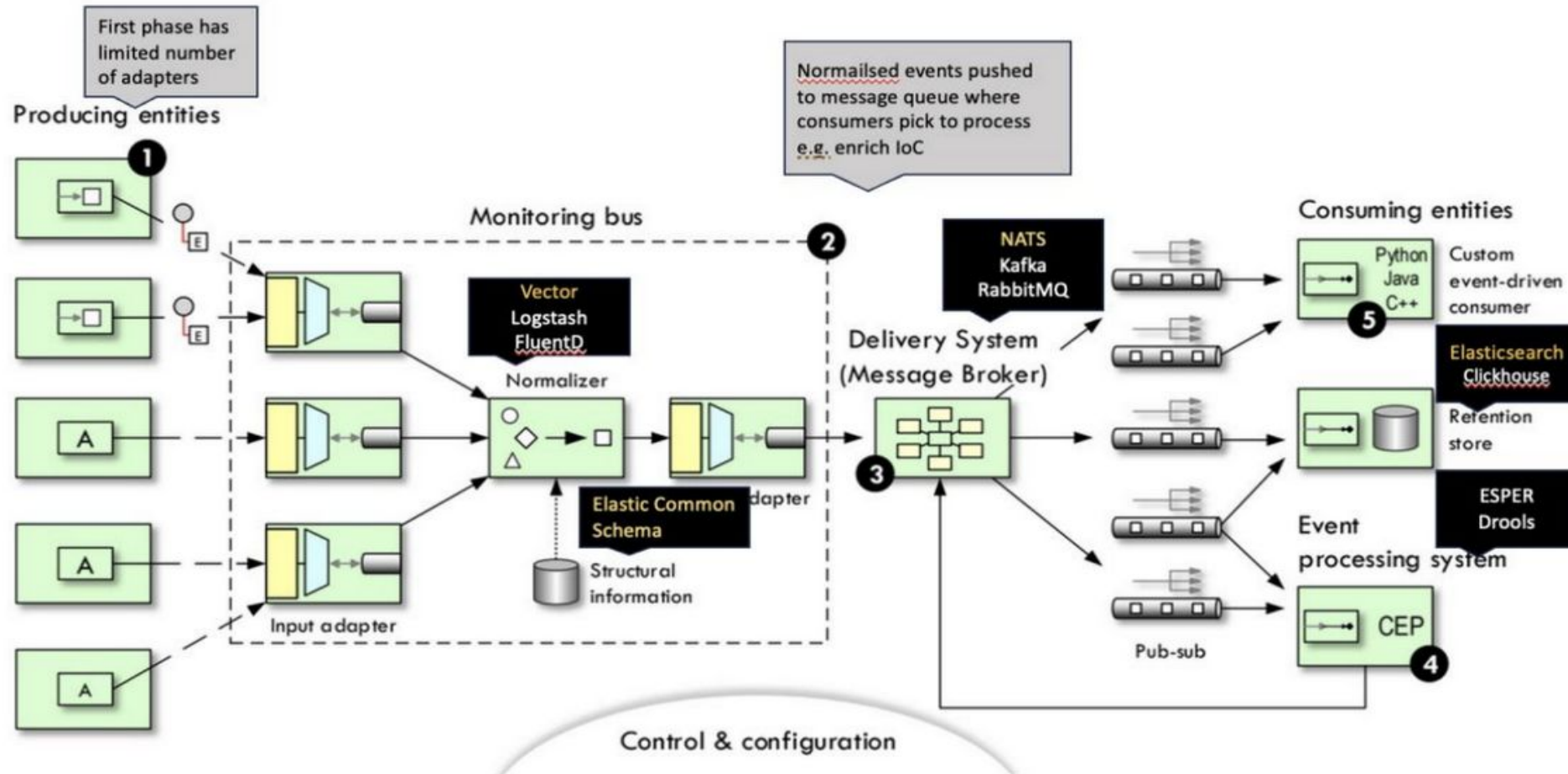


Figure 6 Resilmesh Aggregation and Service Layer Implementation Architecture

Challenge 1: Extensions to Resilmesh via the collaboration mesh IRP's

i) Connectivity Mesh

- Demonstrate how a K8S service mesh capability can provide adaptivity to improve the resilience of the Resilmesh platform
- Address known K8S security issues that could arise in the use of Kubernetes service mesh such as mTLS configuration issues,

ii) Interworking Mesh

- Extend the interoperability in the security application layers i.e. Threat Awareness, Situation Assessment and Security Operations- between Resilmesh components and other tools along the lines of the Open XDR Architecture (OXA) principles including the use of 'Meshroom' tool.



Challenge 2: New Analytic Algorithms and Architectures

i) User and Entity Behaviour Analytics (UEBA)

UEBA can apply to both endpoint and network traffic behaviours. One approach here could be to extend the Resilmesh NDR functional component with network behaviour analytics

ii) Novel edge AI AD architectures

- Ensemble methods
- Distributed deep learning
- Incremental learning
- Edge-to-Edge Collaborative Anomaly Detection



For more Information:

- **D2.3 System Architecture v2**

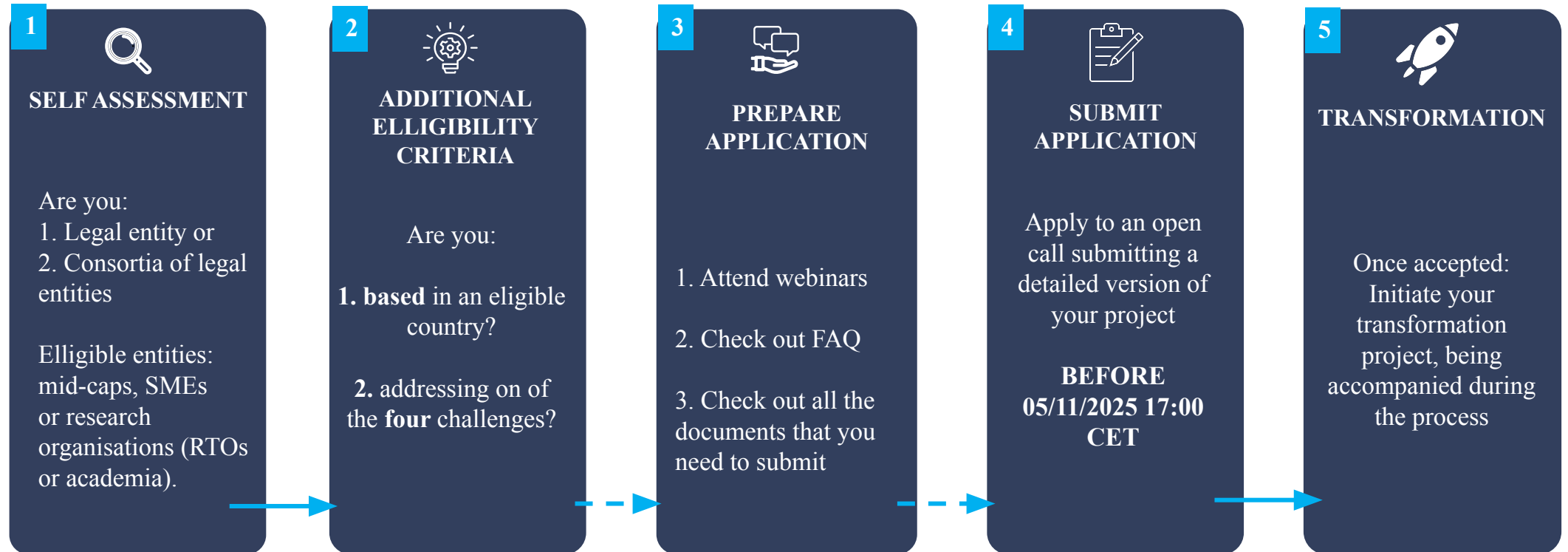
<https://resilmesh.eu/wp-content/uploads/2025/09/Resilmesh-D2.3-0725-Resilmesh-Architecture-v2-B.pdf>

- **D3.1 Resilmesh Platform Reference Implementation**

https://resilmesh.eu/wp-content/uploads/2024/07/Resilmesh_D3.1-0224_Platform_Reference_Implementation-A-1.pdf



HOW TO PARTICIPATE?



Step 1: Resilmesh website

Open Call 2 (Open)

Open Call 2 – Call for submissions

Apply by 05/11/2025 5:00 PM CET

[Apply](#)

Overview

Resilmesh aims at addressing major challenges for security teams, namely an increase in digital infrastructure attack surfaces and their complexity and sophistication, combined with a slow adaptation of organisations' security systems regarding their security architectures, practices and infrastructure. To this end, Resilmesh will help organisations achieve higher levels of security and resilience by providing them with methods and tools to better manage the complexity of their digital infrastructures and services, combat advanced persistent threats.

Step 2: F6S platform

 Edit Cover



Resilmesh - Open Call #2

Securing cyber infrastructures 

 Antonio & Tajana

Apply by Nov 5

DISCUSS 

Overview

 Sep 3-Nov 5 (9 weeks)

[Add Street address](#)

 Brussels, Belgium

   [Add Links](#)

Jobs

[Add job](#)

Describe what you look for and what you provide

€72k prize per company	Virtual & in person location	\$0 cost	5 companies funded per year
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Designing and implementing a cyber situational awareness toolset. Equity free grants & mentoring.

Resilmesh portfolio companies   LOADER, [Odin Solutions S.L.](#) and 2 more 

\$195.1k raised by Resilmesh alumni from investors   [NGI TrustChain](#), [6G-PATH](#) and 4 more 

Looking for companies:

- in Network Security, Renewable Energy, Cyber Security Compliance, Manufacturing Tech, Renewable Energy Tech, AI Fraud Detection, Risk Assessment

Step 3: Application form

SECTION 1: Proposal Identification

1 **Proposal Title ***

2 **Proposal Acronym ***

Should be different than the Proposal name

3 **Proposal Summary ***

Please provide a detailed summary that will be used for promotional purposes and made public.

Maximum length 1500 characters (including spaces).

SECTION 2: Applicant information

According to Guidelines for applicants Resilimesh Open Call #2 will finance

- Single entity - Micro, small and medium-sized enterprises (SMEs)

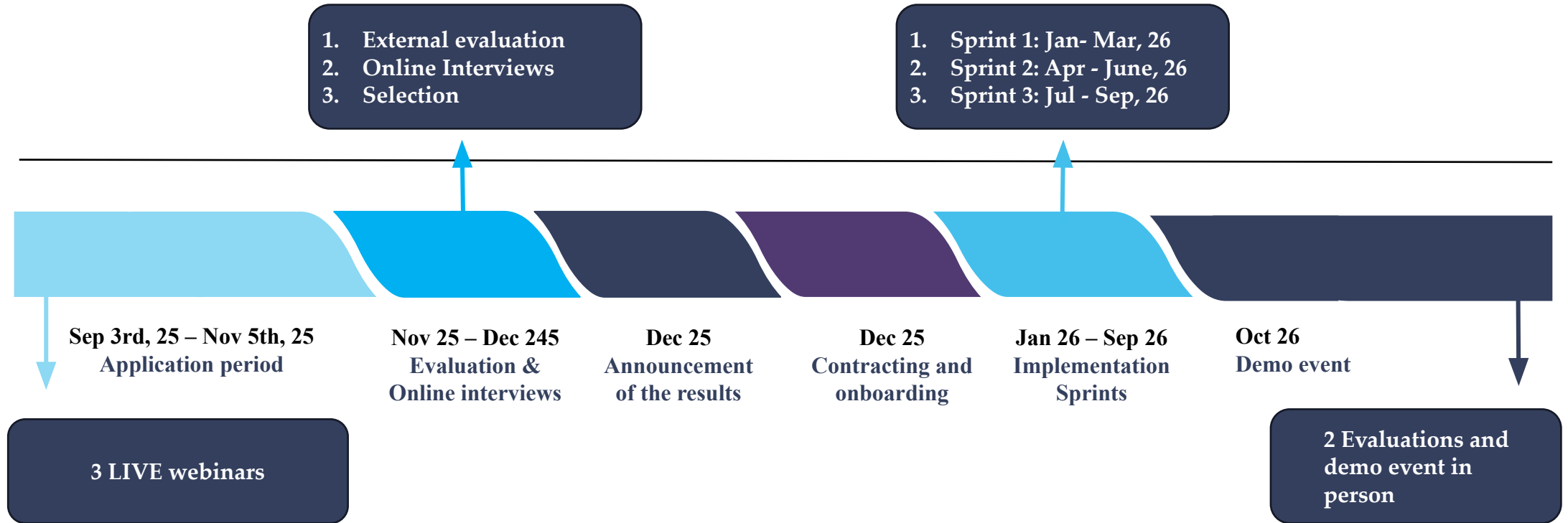
OR

- Consortium of maximum of 2 entities - Micro, small and medium-sized enterprises (SMEs)

Please note to justify the role of each organisation, and the capacity in terms of expertise and resources for the selected topic in the Annex 2 Proposal Technical Annex (template).

In case of a single entity application "Applicant 2" fields should not be answered.

TIMELINE



Thank you for your attention!
Next webinars: 17/10 & 29/10 [10:00AM CET]
Questions?





More information:



www.resilmesh.eu



Ask questions directly:

Help desk: resilmesh@f6s.com

F6S discussion board:

www.f6s.com/resilmesh-open-call-1/discuss



Stay informed about the progress of the project by subscribing to **our newsletter**