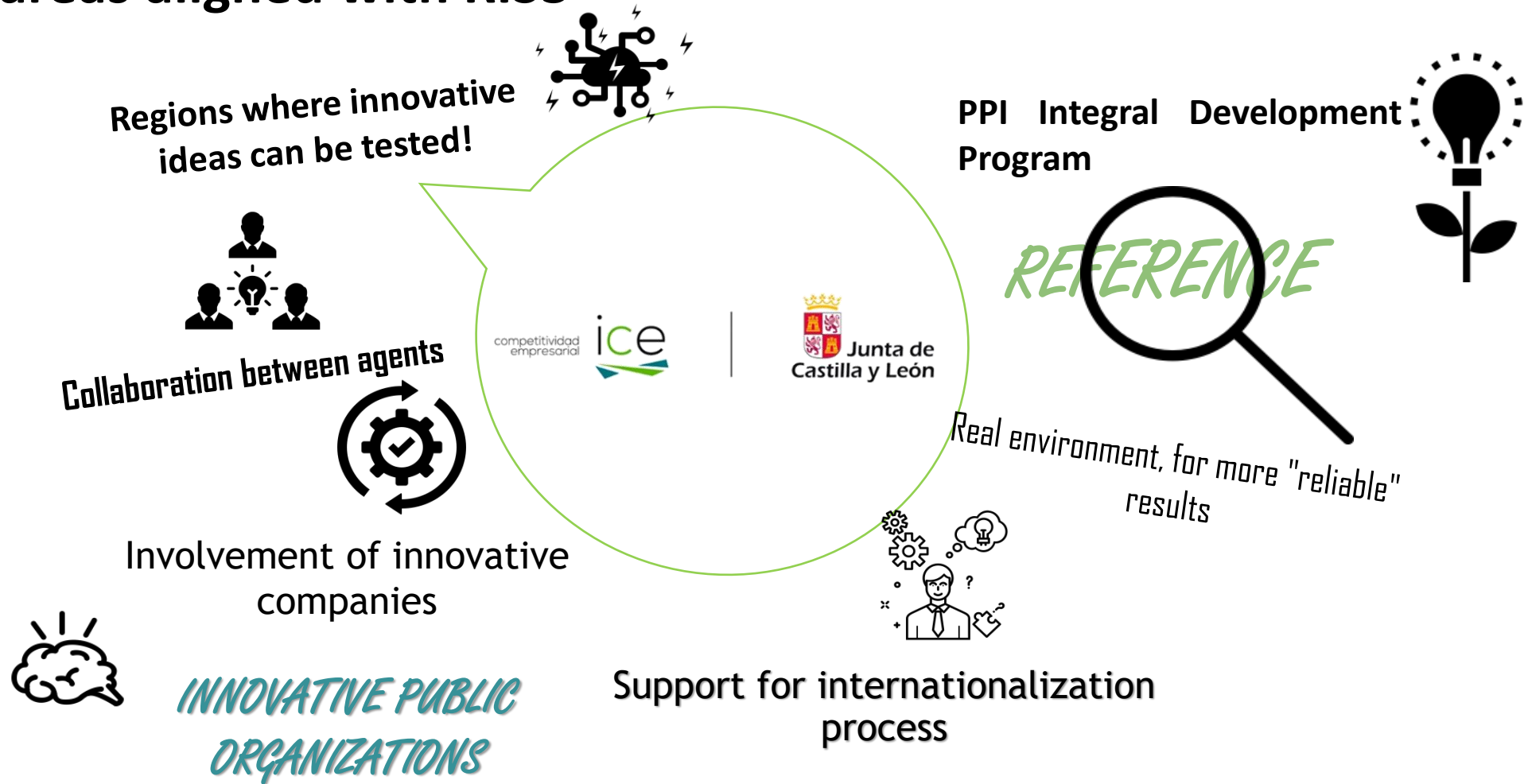




# A commitment to promote innovation in the field of cybersecurity through PPI

# The ICE seeks to become the **key driver and sponsor of the PPI solutions in the region of Castilla y León**, based on the promotion of innovation in strategic areas aligned with RIS3



Note: ICE refers to "Business Competitiveness Institute"

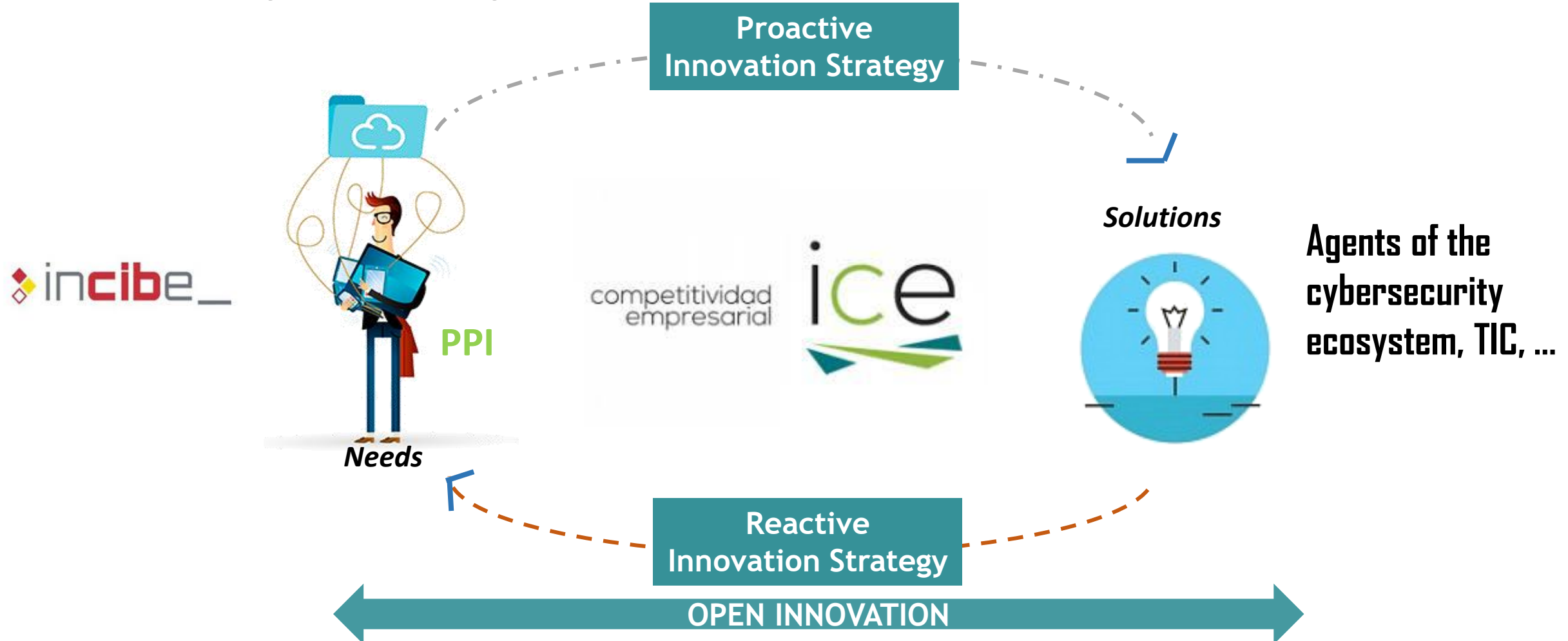


*“Thanks to the **Public Procurement of Innovative solutions (PPI)**, we intend to respond to the technological needs of public administrations, through the purchase of solutions’ development and innovative products and services of high quality, while promoting innovation and technological development of companies and encouraging them to make innovative proposals*”



# Open innovation strategy

## ICE will deploy a strategy to promote open innovation through the PPI solutions in the field of cybersecurity, in collaboration with INCIBE



Note1 : ICE refers to "Business Competitiveness Institute"  
Note 2: INCIBE refers to "National Cybersecurity Institute"



# Map of the current situation

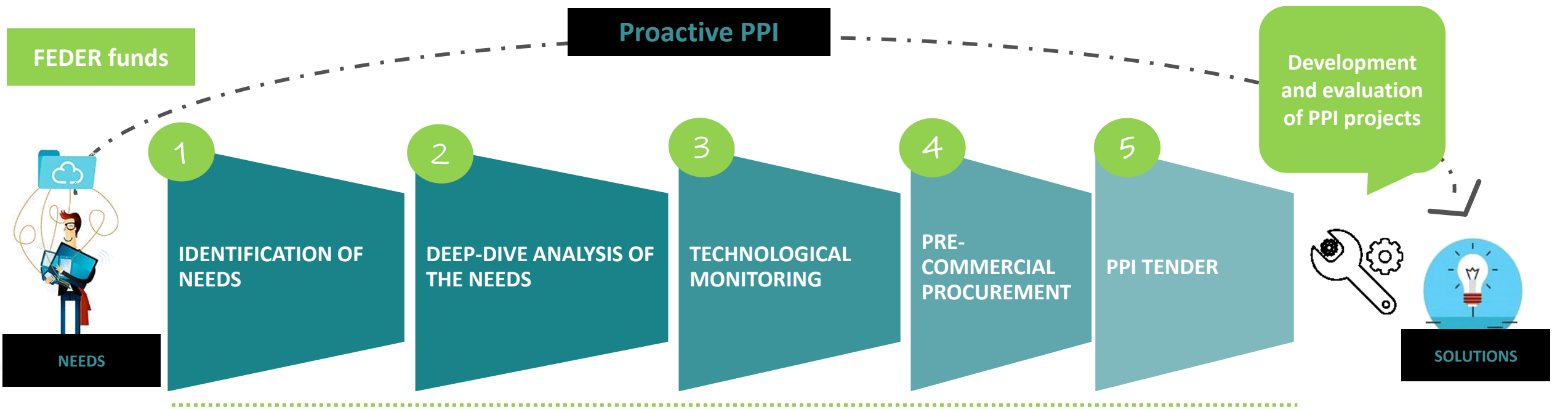


Conectados para innovar

competitividad empresarial



Fondo Europeo de Desarrollo Regional



Initiatives

PPI Project on Cybersecurity

Drivers



Contractor



Structure

Signed Agreement



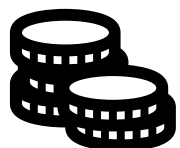
# PPI in Cybersecurity

4 technological challenges have been identified for which we are searching innovative solutions

PPI Project on  
Cybersecurity

incibe\_

competitividad  
empresarial ice



2-3 M €



Challenge #1. Identification of bots and botnet servers



Challenge #2. Identification of .onion domains in the TOR network not indexed by public sources



Challenge #3. Automated identification, categorization and prediction of cyber-attacks



Challenge #4. Advanced services for the attribution of cyber-incidents


*The mid-term review of RIS 3, considers the Cybersecurity a **flagship initiative** in Castilla y León*





# Roadmap




**Development of PPI skills and capacities of ICE-INCIBE equipment**


**Internal ICE procedures (Counseling, Intervention)**


**Mobilization and development of tenders, prioritization of Challenge #2 and design of the roadmap with clear objectives**


**Map of cybersecurity challenges' agents**


**Summary sheets of the four challenges**






**Suitability analyses of the four challenges**


**Development of the sheet of functional specification and the final report for Challenge #2**


**Presentation day of Challenge #2 and map of early demand (Challenges #1, 3 and 4)**


**Publishing of Challenge #2**



- 
**Challenge #1. Identification of bots and botnet servers**
- 
**Challenge #2. Identification of .onion domains in the TOR network not indexed by public sources**
- 
**Challenge #3. Automated identification, categorization and prediction of cyber-attacks**
- 
**Challenge #4. Advanced services for the attribution of cyber-incidents**

Note1 : ICE refers to “Business Competitiveness Institute”  
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# Early demand map

## ICE-INCIBE EARLY DEMAND MAP FOR CYBERSECURITY. AN OPPORTUNITY FOR THE ICT AND CYBERSECURITY ECOSYSTEM

IDENTIFICATION OF .ONION DOMAINS IN THE TOR NETWORK NOT INDEXED BY PUBLIC SOURCES



→ Up to 312,697.88 €\*  
→ Up to 222,893.41 €\*

**TRL 6**

SYSTEM/PROTOTYPE  
VALIDATED IN A SIMULATED  
ENVIRONMENT

**PUBLICATION  
DATE**

December 2020

**€ BID'S  
AMOUNT**

535,591.29€\*



**Next steps**

WEBINAR FOR TENDERS'  
PRESENTATION

November-December 2020



10

Note 1 : ICE refers to "Business Competitiveness Institute"  
Note 2: INCIBE refers to "National Cybersecurity Institute"

Tenders in 2021

IDENTIFICATION OF  
BOTS AND BOTNET  
SERVERS

AUTOMATED IDENTIFICATION,  
CATEGORIZATION AND  
PREDICTION OF CYBER-ATTACKS

CHALLENGE #1

CHALLENGE #3

CHALLENGE #4

ADVANCED SERVICES  
FOR THE ATTRIBUTION  
OF CYBER-INCIDENTS

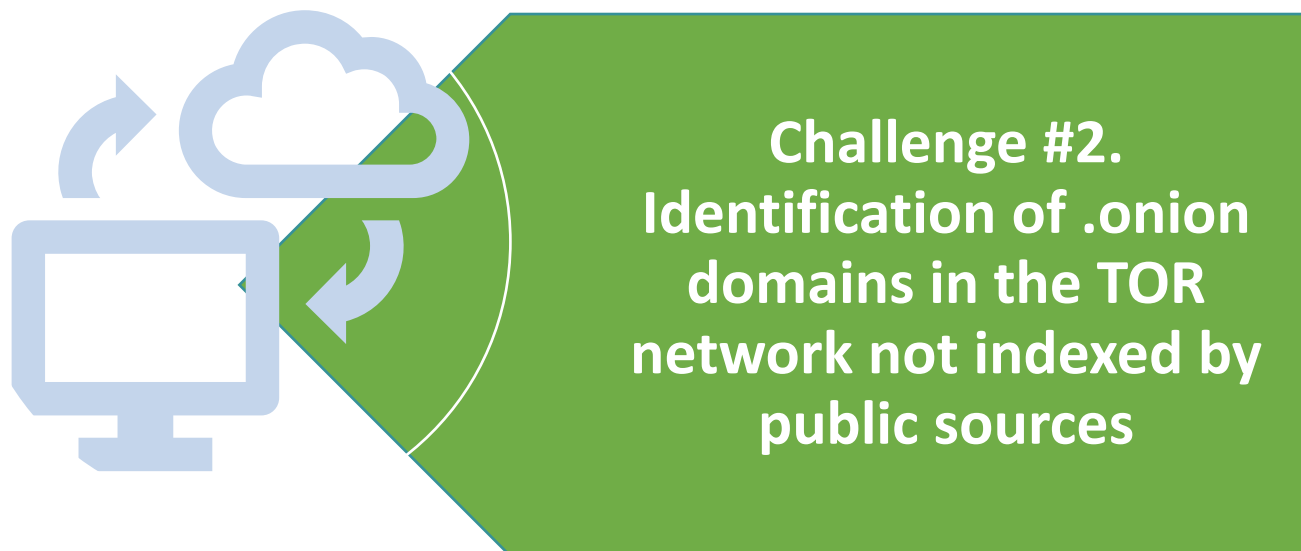
CHALLENGE #2



**PRE-COMMERCIAL  
PROCUREMENT TENDER**



## Challenge #2 will be tendered in December 2020

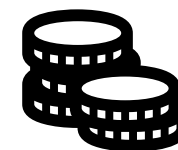


- **Phase 1:** Research, functional definition of the proposed solution, development of initial software prototype and demonstration of its viability (TRL 3-4)
- **Phase 2:** Development of a final software prototype that solves the challenge (TRL 6)



**13 months for execution:**

- **Phase 1: 7 months**
- **Phase 2: 6 months**



**535.591,29€\*:**

- **Phase 1: 312.697,88€**
- **Phase 2: 222.893,41€**



**Several contractors:**

- **Phase 1: up to 4**
- **Phase 2: up to 2**

(\*): It includes taxes

