

# Deliverable D8.1 PIACERE brochure and public website

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| Abstract:              | The initial version of the brochure and project website will include at least project objectives and contact details. PIACERE website will be set-up by the Project |  |  |
|------------------------|---|--|--|
|                        | Leader TECNALIA and continuously enhanced by all  |  |  |
|                        | partners to include public downloadable results and links to related news and initiatives.  |  |  |
| Keyword List:          | website, brochure   |  |  |
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# **Document Description**

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| version   | Version Date | Modification Reason              | Modified by                         |  |
| v0.1      | 10.03.2021   | First draft version              | Maitena Ilardia<br>(TECNALIA)       |  |
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| V1.0      | 31.03.2021   | Ready for submission             | Leire Orue-Echevarria<br>(TECNALIA) |  |



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# Terms and abbreviations

| CSP    | Cloud Service Provider         |
|--------|--------------------------------|
| DevOps | Development and Operation      |
| DoA    | Description of Action          |
| EC     | European Commission            |
| GA     | Grant Agreement to the project |
| IaC    | Infrastructure as Code         |
| IEP    | IaC execution platform         |
| IOP    | IaC Optimization               |
| KPI    | Key Performance Indicator      |
| SW     | Software                       |



# **Executive Summary**

This deliverable is a key aspect in the outreach strategy as it services to create the PIACERE brand.

This deliverable has two objectives. On one hand, it aims to introduce the look and feel, structure and initial content of the PIACERE website. Such content will be regularly updated during the project with news, blog posts, and other relevant results. On the other hand, this document presents the content, structure and first mock-up of the PIACERE brochure. As in the case of the website, several versions of the brochure will exist.



### 1 Introduction

### 1.1 About this deliverable

The objective of this deliverable is twofold. On one hand, it presents the look and feel requirements, the structure and main content of the PIACERE website. On the other hand, it presents 1) the outline of the leaflet and 2) the main content.

# 1.2 Document structure

Section 2 presents the look and feel of the website, the structure as well as the content that has been included in M4 of the project. The main target audience of this section is the visitors of the PIACERE site. Section 3 outlines the main aspects of the PIACERE brochure in terms of messages, structure and content. The main target audience of this section is actually the graphical designers that will work in the creation of the brochure. Section 4 presents the conclusions of the deliverable.



### 2 Public website

#### 2.1 Structure

Websites are an important tool for dissemination and communication. They are often the first contact with the project and is often a big part of the brand. Websites communicate in one channel, that is, there is few to no interaction with the visitors, hence, to have updated and relevant content is key. The interactive parts will be sought to be achieved through the other means such as use of various social networks.

A clear structure is therefore paramount for this. At this stage, this is the structure proposed:

- Home
- About us
  - Vision
  - Solution
  - o Approach
  - Objectives
  - Key Results
  - o Benefits
- Use cases
  - The Slovenian Ministry of Public Administration (SI-MPA)
  - Critical Maritime infrastructures
  - o Public Safety on IoT in 5G
- Results
- Partners
- Blog
- Communication
  - Public deliverables
  - Materials

# 2.2 Graphical appearance

# 2.2.1 Color palette

The PIACERE Color palette is depicted next:



Figure 1. PIACERE Color Palette

Several colors of the palette are chosen for the website. In RGB format they are as follows:



Figure 2. PIACERE RGB codes for selected colors of the palette

The website will use as baseline the following template and theme: <a href="https://www.refaktor.org/drupal/porto7/one-page">https://www.refaktor.org/drupal/porto7/one-page</a> (One-page site).

This template allows the website to be responsive and is automatically adapted to the device used.

#### 2.2.2 Menu

PIACERE website will have the menu located in the upper part of the site and will have the following menu items:



Figure 3. Location and structure of the PIACERE Website menu

#### 2.2.3 **Body**

The content of the body is described in Section 2.3

#### **2.2.4** Footer

The footer shall include:

- The acknowledgement to EC funding, compliant with the EC rules
- A Twitter widget, with the last Tweets
- Details of the coordinator, so anyone can get in touch with her
- Logos of the social networks where PIACERE is present



Figure 4. PIACERE Footer

#### 2.3 Content

# 2.3.1 Homepage

The first page that anyone visiting the website will be the "Home" page, which is described next.

# 2.3.1.1 Carrousel of images

The selected template offers the option of having a carrousel of sliding images. The selected images are shown next:



Figure 5. Carroussel image 1

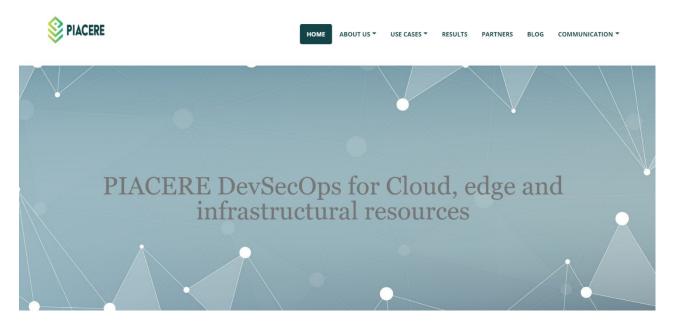
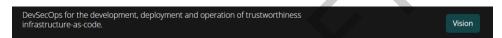


Figure 6. Carroussel image 2

In addition, the following image shall appear so the audience can get a faster understanding of the and vision of the project.



The following images will show the major activities that PIACERE aims to solve, demonstrating that it covers the complete software development and operation lifecycle of IaC.

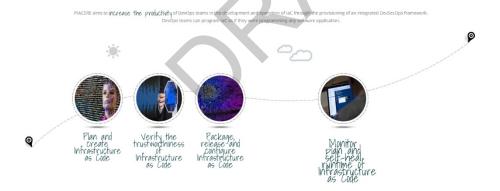


Figure 7. Main activities and results of PIACERE

The next block is the blog posts. At M4 the project has two entries, as shown next.



Figure 8. Blog entries

# **2.3.2** About us

#### 2.3.2.1 Vision

The goal of this site is to present a summary of the project with some of the project's core goals.

The final version looks like this:

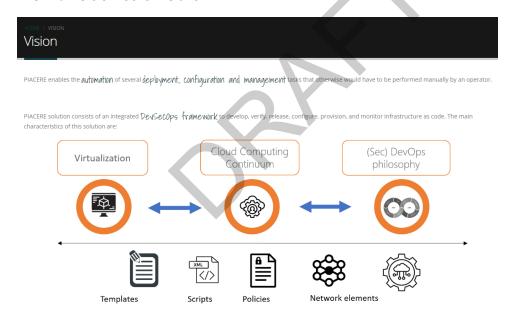


Figure 9. Page for the PIACERE Vision and core values

#### 2.3.2.2 **Solution**

Here, the PIACERE solution shall be presented.

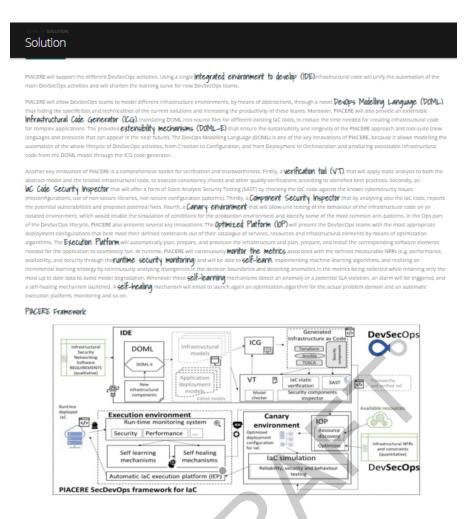


Figure 10. Page for the PIACERE Solution

#### 2.3.2.3 Approach

The approach section briefly describes the main activities of PIACERE.

The key elements of the explanation of the approach are to be highlighted.

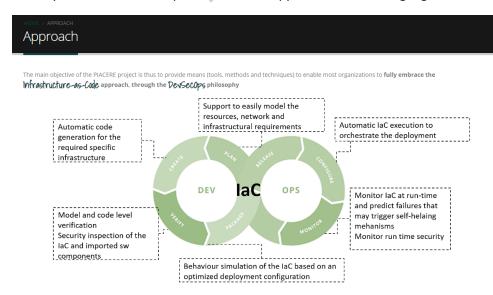


Figure 11. Page for the PIACERE Approach

## 2.3.2.4 Objectives

The page for the objectives looks like this:

# Objectives

The main objectives of PIACERE are to:



Help the DevSecOps teams to plan the development of the infrastructural models and to create the IaC, by providing them with a simple definion of abstractions of execution environments.



Provide the DevSecOps Teams with the tools to verify the correctness of the infrastructural mudels and the trustworthiness and security of the IaC and the associated software components



Provide the DevSecOps teams with the tools and environments to simulate, package, release and configure an optimized deployment of the Iac



Support DevSecOps teams with the mechanisms and tools to **Continuously monitor**, self-learn and **plan for** (self-)healing and optimize the executable IaC



Figure 12. Page for the PIACERE Objectives

#### 2.3.2.5 Key Results

This page will show the main outcomes of the PIACERE project.



Figure 13. Page for the PIACERE Key Results

When clicking on each of the green boxes, more information about the key results can be seen.



Figure 14. An example of more details regarding a PIACERE Key Result

#### **2.3.2.6** Benefits

This page shall include the main benefits expected thanks to the use of PIACERE.

The PIACERE expected Benefits are:

- Making the creation of such infrastructural code MOVE ACCESSIBLE to the DevSecOps teams
- · Increasing the quality, security, trustworthiness and evolvability of infrastructural code
- Ensuring business continuity by providing self-healing mechanisms anticipation of failures and violations
- Allowing IaC to Self-learN from previous conditions that triggered un-expected situations

Figure 15. Page for the PIACERE Benefits

#### 2.3.3 Use cases

PIACERE will be implemented in three real use cases, namely:

- The Slovenian Ministry on Public Administration (SI-MPA)
- Critical Maritime infrastructures
- Public Safety on IoT in 5G

Each use case shall have a distinct page. The texts are taken directly from the DoA [1].

For the use case on the Slovenian Ministry on Public Administration (SI-MPA) the page looks like this:



HOME ABOUT US - USE CASES - RESULTS PARTNERS BLOG COMMUNICATION -

# The Slovenian Ministry of Public Administration (SI-MPA)

This validation scenario will solve the following issues:

- · repeatability of the deployment and configuration process for the PA information systems is insufficient and tailored just to single IS deployment
- the need of many ISs for heterogeneous environment with high requirements for confidentiality, integrity and availability increases the difficulty of their provisioning and configuration.
- · lack of standardized solutions resulting in an increase of the total costs of ownership (TCO),
- · lack of skilled employees, lack of appropriate training on the market,
- · time consuming activities, unacceptable to customers from the state administration
- · high cost of consulting, with some niche players on the market, unable to provide DevOps practices to agile achievement of business goals, etc.

#### Application where PIACERE will be used:

The toolset will be tested on deploying the new information system NIO - National Interoperability Framework Portal system. The NIO is the national web access point for publishing interoperable solutions and products of the public sector. The portal represents the basic publishing tool, keeping up with updates and using different interoperable solutions (technical, semantic, organizational, legal).

It allows more transparent publishing of interoperable solutions and exporting of published solutions in standard formats (using standards ADMS, DCAT).

#### Expected benefits/ improvements using PIACERE tools:

- information systems,
- · be able to reduce the cost of deploying IT solutions on various infrastructure platforms,
- standards, guidelines and good practices,
- improve the level of information security, as the results of human factor errors, and increase the number of automated activities, keeping at the same time a higher level of compliance with the security requirements, redefine the core process of delivering information solutions on the DRO infrastructure and increase the qualifications and competences of IT personnel.



Figure 16. Page for the use case Slovenian Ministry on Public Administration

For the use case Critical Maritime Infrastructures, the page looks like this:



HOME ABOUT US \* USE CASES \*

RESULTS PARTNERS BLOG COMMUNICATION \*

### Critical Maritime infrastructures

#### This validation scenario will solve the following issues:

To introduce an EU IaC platform supporting the concepts of performance, edge-fog computing

and dynamic hybrid balancing to build safety and security verticals in industrial scenarios (port and maritime logistics). Industrial IoT platforms for both specialised and general purpose do not offer wide, accurate and application ready information of the instantaneous performance of the systems composing the platform, and they don't allow to use all the computing resources in the platform in a flexible way. In heterogeneous scenarios, performance is usually guaranteed by over allocating resources for critical systems that most of the time will be significantly infra-utilised. This condition affects negatively to the cost-effectiveness of the industrial IoT solutions and thus prevents a wider adoption in port and maritime environments.

#### Application where PIACERE will be used:

PIACERE will provide the following direct benefits:

- Guarantee security & privacy when using tools/data in virtualized environments
- $\boldsymbol{\cdot}$  Ensure safety and (reproducible) timing performance from a user perspective
- $\bullet \ \mathsf{Flexible}, \ \mathsf{hybrid} \ \mathsf{deployment} \ \mathsf{of} \ \mathsf{applications} \ \mathsf{by} \ \mathsf{seamless} \ \mathsf{mixing} \ \mathsf{of} \ \mathsf{on}\text{-}\mathsf{device} \ \mathsf{and} \ \mathsf{cloud} \ \mathsf{services} \ \mathsf{and} \ \mathsf{SW}$
- Distributed solutions architecture for safety critical cyber-physical systems with consideration of architecture transition for device-only architectures
- ${\boldsymbol{\cdot}}$  Novel services and products by use of Al and cloud technologies

#### Expected benefits/ improvements using PIACERE tools

- $\bullet \ \mathsf{Guarantee} \ \mathsf{security} \ \& \ \mathsf{privacy} \ \mathsf{when} \ \mathsf{using} \ \mathsf{tools/data} \ \mathsf{in} \ \mathsf{virtualized} \ \mathsf{environments} \\$
- Ensure safety and (reproducible) timing performance from a user perspective
- Flexible, hybrid deployment of applications by seamless mixing of on-device and cloud services and SW
- Distributed solutions architecture for safety critical cyber-physical systems with consideration of architecture transition for device-only architectures
- ${\boldsymbol{\cdot}}$  Novel services and products by use of Al and cloud technologies



Figure 17. Page for the use case Critical Maritime Infrastructures

For the use case on Public Safety on IoT in 5G, the page looks like this:



#### This validation scenario will solve the following issues:

Mobile networks are well-suited for these kinds of public safety applications because of their ability to handle traffic from large numbers of low-energy devices that are transmitting small volumes of data. Massive IoT can be used to save lives through disaster monitoring and early warnings.

So those critical functionalities must be design and developed with the highest possible security policies so that it is mandatory to adopt an approach which can guarantee a security by design.

Moreover, given the modern incremental development process (DevOps), those security by design principles needs to be dynamically ensured and integrated in the SW development pipeline.

Adopting DevSecOps the above considerations will be well taken into account.

#### Application where PIACERE will be used:

Emergency Warning Function Service Public Safety on IoT in 5G are emerging services in order to:

- Providing stable, secure, and future-proof mobile broadband services.
- To have the latest communications systems as well as a cost-effective way to add new digital broadband services, such as HD video for real-time situational awareness, mobile positioning and cellular Internet of Things (IoT), including asset management and connected logistics solutions.
- · Dispatch the best-suited response teams.

Using the PIACERE platform will provide a way to verify benefits of the DevSecOps approach for designing and implementing the "public safety application".

#### Expected benefits/ improvements using PIACERE tools

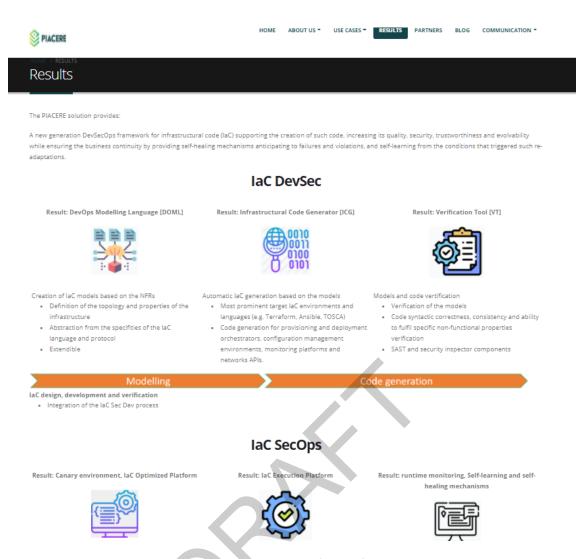
- It will ensure to adopt the DevSecOps approach, in order to proof its benefits on development of sensitive and critical infrastructure
- It will guarantee improvements in terms of the quality, security and evolvability of infrastructural code, and enabling the reuse of pre-existing infrastructure-as-code approach in different contexts.
- It will provide feedback in exploring the security by design approach in the context of IoT distributed architectures and relevant technologies the goal to provide guidelines, principles and suggest frameworks to obtain provable security in the different layers of the products.



Figure 18. Page for the use case Public Safety on IoT in 5G

#### 2.3.4 Results

This page shows in a graphical way, the results of the project. It complements the page on Key Results.



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Figure 19. Results (excerpt)

#### 2.3.5 Partners

This page has the goal of showing who is implementing the PIACERE solution.

A map of Europe shall appear, indicating where each partner comes from.

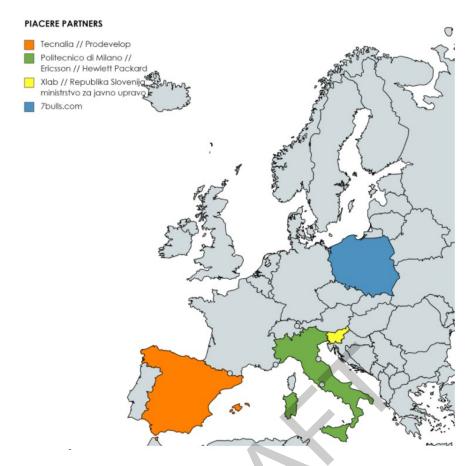


Figure 20. Map showing where all partners come from

The second part of this page is devoted to information about the partners and the leaders of each organization in the project:

TECNALIA: Leire Orue-Echevarria
 PRODEVELOP: Ismael Torres
 ERICSSON: Cosimo Zotti
 XLAB: Daniel Vladušič

POLIMI: Elisabetta Di Nitto

SI-MPA: Igor Skof

• 7bulls: Katarzyna Materka

### **Team Members**

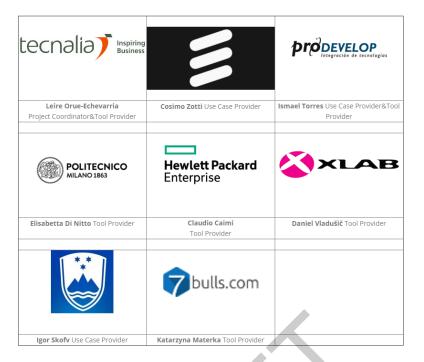


Figure 21. Details of the organizations participating in the project and they responsible people of said organizations

### 2.3.6 Communication

At this stage, there are two menu items under this:

- 1. Deliverables
- 2. Materials

The "public deliverables" tab contains the table where all PIACERE public deliverables will be uploaded. These will be published as soon as they are submitted to the EC, even before they are approved by the EC.

| Del.<br>No. | Deliverable name   | File |
|-------------|--|------|
| D8.1        | PIACERE brochure and public website;   |      |
| D8.2        | Communication, Networking Plan and Dissemination Strategy;   |      |
| D2.1        | PIACERE DevSecOps Framework Requirements specification, architecture and integration strategy - v1 |      |
| D3.1        | PIACERE Abstractions, DOML and DOML-E - v1   |      |
| D3.4        | Infrastructural code generation - v1   |      |
| D3.7        | PIACERE IDE - v1   |      |
| D4.1        | Infrastructural model and code verification - v1   |      |
| D4.4        | IaC Code Security and components security Inspection - v1  |      |
| D5.1        | laC execution platform prototype - v1  |      |
| D5.4        | Canary environment prototype - v1  |      |
| D5.7        | IOP prototype - v1   |      |
| D6.1        | PIACERE run-time monitoring and self-learning, self-healing platform - v1                          |      |
| D2.3        | PIACERE DevSecOps Framework - v1   |      |
| D8.3        | Dissemination, communication and networking report - Report - v1                                   |      |
| D2.2        | PIACERE DevSecOps Framework Requirements specification, architecture and integration strategy - v2 |      |
| D2.7        | PIACERE Abstractions, DOML and DOML-E - v2   |      |
| D3.5        | Infrastructural code generation - v2   |      |
| D3.5        | PIACERE IDE - v2   |      |
| D4.2        | Infrastructural model and code verification - v2   |      |
| D4.5        | IaC Code Security and components security Inspection - v2  |      |
| D5.2        | laC execution platform prototype - v2  |      |
| D5.5        | Canary environment prototype - v2  |      |
| D5.8        | IOP prototype - v2   |      |
| D6.2        | PIACERE run-time monitoring and self-learning, self-healing platform - v2                          |      |
| D2.4        | PIACERE DevSecOps Framework - v2   |      |
| D3.3        | PIACERE Abstractions, DOML and DOML-E - v3   |      |
| D3.6        | Infrastructural code generation - v3   |      |
| D3.9        | PIACERE IDE - v3   |      |
| D4.3        | Infrastructural model and code verification - v3   |      |
| D4.6        | laC Code Security and components security Inspection - v3  |      |
| D5.3        | IaC execution platform prototype - v3  |      |
| D5.6        | Canary environment prototype - v3  |      |
| D5.9        | IOP prototype - v3   |      |
| D6.3        | PIACERE run-time monitoring and self-learning, self-healing platform - v3                          |      |
| D2.5        | PIACERE DevSecOps Framework - v3   |      |
| D8.4        | Dissemination, communication and networking report - Report - v2                                   |      |

Figure 22. Page for the publication of PIACERE public deliverables

The materials menu will take to a page that will present the following items:

- Press Releases, namely the pdfs with the press releases in the different languages
- Newsletter: it will show the different releases of the newsletters.
- Brochure: it will hold the files for the different versions of the brochure.
- Articles: references to the published articles in journals and papers

# 2.3.7 Blog

This section will include the different blog entries posted in accordance with the communication strategy defined in D8.2.

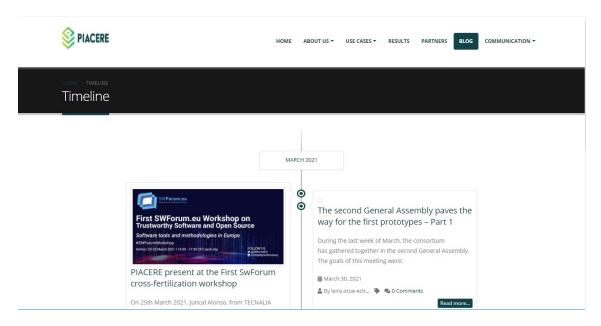


Figure 23. Page where all PIACERE blog entries can be seen

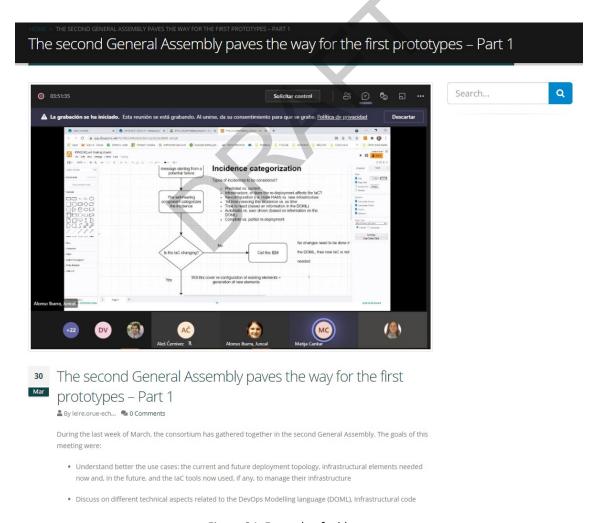


Figure 24. Example of a blog entry

### 3 Leaflet

#### 3.1.1 Front of the leaflet

The aim of this first version of the leaflet is to raise awareness of the project, by presenting the most relevant aspects of PIACERE (objective, key results, benefits and use cases). The upcoming versions of the leaflet will focus on other aspects such as use cases or the achieved benefits.

The information that the first version of the leaflet will contain is as follows:

- Logo of the project, acronym and title of the project
- EC Disclaimer: This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 10100162
- EU flag: the EU emblem must have appropriate prominence. Graphics guide to the European emblem to be accessed at: <a href="http://publications.europa.eu/code/en/en-5000100.htm">http://publications.europa.eu/code/en/en-5000100.htm</a>
- Partner logos

The end result shall look similar to this:



Programming trustworthy Infrastructure As Code in a SECURE framework





Horizon 2020 research and innovation programme under grant agreement No 101000162

Figure 25. Mockup for the front of the leaflet

#### 3.1.2 Inside of the leaflet

**Project Objective** Programming trustworthy
Infrastructure As Code in a SECURE framework

#### Approach



#### Use cases

- 1. The Slovenian Ministry of Public Administration for hosting information systems on a centralized infrastructure
- 2. Critical Maritime Infrastructures for fulfil the management needs of port authorities
- 3. Public Safety on IoT in 5G of both human

#### **Key Results**

KR1: CertificatioDevSecOps Modelling Language KR3: Infrastructural Code Generator KR4: DOML Extension mechanism KR5: Verification Tool KR6: IaC Code Security Inspector KR7 - Component Security Inspector KR8 - Canary Sandbox Environment (CSE) KR11 - PIACERE Self-learning and self-healing mechanisms

KR12 - Runtime security monitoring

#### **Benefits**

- 1. Making the creation of such infrastructural code more accessible to the DevSecOps teams
- 2. Increasing the quality, security, trustworthiness and evolvability of infrastructural code
- 3. Ensuring business continuity by providing selfhealing mechanisms anticipation of failures and
- 4. Allowing IaC to self-learn from previous conditions that triggered un-expected situations

Figure 26. Mockup for the inside of the leaflet

#### 3.1.3 Back of the leaflet

The back of the leaflet shall include the following items.

### 3.1.4 Find us!

https://ww.PIACERE-project.eu/

Twitter: @PIACEREproject

### 3.1.5 Project Key data

Project Duration: December 2020 - November 2023

Budget: € 4 424 250

#### 3.1.6 Contact information details

**Project Coordinator:** 

Leire Orue-Echevarria (TECNALIA) Leire.Orue-Echevarria@tecnalia.com

+34 664103005

# 4 Conclusions

The document at hand has presented the look and feel, the structure and the content of the PIACERE website and brochure. Both communication tools will be updated in a continuous manner as the project progresses.



# 5 References

[1] PIACERE Consortium, "Description of Action - Annex 1 - GA 101000162," 2020.

