

Deliverable D6.3

Early Project Presentation and brochure

WP 6

Project Acronym & Number: SmartCLIDE – GA 871177

Smart Cloud Integrated Development Environment

Project Title: supporting the full-stack implementation,

composition and deployment of data-centered

services and applications in the cloud

Status: Final

Dissemination Level: Public

Authors: Eclipse Foundation Europe GmbH

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Document Identifier: D6.3

Date: 31.12.2020

Revision: 1.0

Project website address: www.smartclide.eu

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Dissemination Level

PU	Public	
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
СО	Confidential, only for members of the consortium (including the Commission Services)	

Document Control

Version	Notes	Date
0.1	Initial version of the document	21.12.20
1.0	Integration of the KDS and ATB reviews	22.12.20

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Abbreviations

AB	Advisory Board		Scientific and
App	Software Application	STQA	Technical Quality
APM	Adaptive Project	T	Assurance Task
D	Management	VoIP	Voice over IP
D	Deliverable Description of	WP	Work Package
DoA	Description of Action		Work Package
EA	Ethical Adviser	WPL	Leader
PB	Plenary Board	WPMT	Work Package
EC	European	VV 1 1V1 1	Management Team
EC	Commission	w.r.t.	with respect to
e.g.	exempli gratia = for example		
etc.	et cetera		
EU	European Union		
FP7	Framework Programme 7		
GA	Grant Agreement		
GDPR	General Data Protection Regulation		
ICT	Information and Communication Technology		
i.e.	id est = that is to say		
IP	Intellectual Property		
IPR	Intellectual Property Rights		
KPI	Key Performance Indicator		
M	Month		
PB	Plenary Board		
PC	Project Coordinator		
PQA	Project Quality Assurance		
QA	Quality Assurance		
RTD	Research and Technological Development		
SME	Small and Medium Sized Enterprise		
SC	Steering Committee		



Executive Summary

According to the predefined rules exposed at the beginning of the SmartCLIDE project, project presentation and brochure will be issued in this section. All the images and materials created (Brochure, poster, Roll up for conferences, and project templates) could be downloaded and are, of course, open to use as Creative Commons. This report gives an overview of the SmartCLIDE project public website dissemination area (Dissemination Kit, Blog and Follow up) and internal website and collaboration support.

The public site (www.smartclide.eu) is designed to present the work of the SmartCLIDE project to the general public, the scientific community, and industry. It was already presented with the SmartCLIDE logo on the deliverable D6.3.1.

All partners are collaborating in making local and international news about the goals of the consortium, updating deliverables to the website and keeping the open for public access. Our collaboration infrastructure will be evaluated and upgraded as necessary during the lifetime of the project. All partners are encouraged and reminded regularly to provide additional suggestions and further information regarding activities related to the SmartCLIDE project, so that these can be properly captured and advertised via the project website in order to keep the website current with fresh information and material.

Using the materials provided (printed and online) for their own events and for the events in which the Consortium have presence. (Updated pictures, updated reports, news about the platform, Workshops activities, Interaction with the end users... etc.)

This document will have 3 releases:

- This first release (D6.3), month 12, describes the first set of assets created for the project.
- A second release (D6.5), month 24, will present the created assets after 2 years duration
- A final release (D6.7), month 36, will present the final list of assets created by the project dissemination and communication of the project.

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Table of Contents

1.1	About this deliverable	8
7.1	For the project launch	9
14.1	Presentation: SmartCLIDE Pitch (Oct. 2020)	11
14.2	Presentation: SmartCLIDE Vision (Nov. 2020)	12
14.3	Presentation: SmartCLIDE: Stairway to Cloud (Dec. 2020)	13
14.4	Newsletter #1: Let's lay the foundation	15
14.5	Press Release: CONTACT Software	16
14.6	Press Release: Eclipse Foundation	16
14.7	Press Release : Kairós DS	17
14.8	Press Release : AIR Institute	18
14.9	Press Release : ATB	19
14.10	SmartCLIDE Fact Sheet #1	20



1 Introduction

1.1 About this deliverable

The project presentation and brochure are part of the management and dissemination strategy of the SmartCLIDE project. We will be creating these 3 coming years several materials to reinforce the image of the project at all the international events the Consortium participates in. It will serve as first source of information to the public, as concerns objectives, structure and partners involved but particularly with regards to activities, news and public project results. These materials will be regularly updated and customized until the end of the project (D6.3, D6.5 and D6.7) in order to improve engagement of early adopters and end-users.

SmartCLIDE's public website has 9+2 specific sections to promote the assets produced by the project:

- Public deliverables to share technical details about the project.
- Scientific publications to obtain academic recognition by our peers.
- Presentations to promote the project.
- Videos with recorded presentations or demos.
- Newsletters sent to the project followers.
- Press Releases to promote some key project events
- Posters, Flyers and Brochures displayed or distributed. during some events
- Blog articles to drumbeat the activities and progress of the project.
- Logo and artworks of the project
- Training materials that will contribute to learning and understanding of the project (when the first trainings will be available).
- Finally, pointers to the project's open-source code that will contribute to testing, trust and adoption of the project's concepts (when the first code repositories will be available).

2 Public deliverables

So far, we published the following deliverables:

- D1.1 State-of-the-Art and Market Requirements
- D6.1 Open Data Use Plan
- D6.2 Project Website
- D1.4 The SmartCLIDE Concept
- D1.5 The SmartCLIDE Architecture

3 Scientific papers

Our first scientific paper was accepted at QUATIC 2020

• "Applying Machine Learning in Technical Debt Management: Future Opportunities and Challenges" (University of Macedonia)



4 Presentations

We created 3 presentations in 2020:

- <u>SmartCLIDE Pitch (Oct. 2020)</u>: First public presentation on SmartCLIDE presented during EclipseCon 2020 and used to create our first video.
 - o See Appendix 14.1
- SmartCLIDE Vision (Nov. 2020): Presented during the M9 Review
 - See Appendix 14.2
- <u>SmartCLIDE</u>: <u>Stairway to Cloud (Dec. 2020)</u>: Presented at the Open Research Webinars co-organized by the Eclipse Foundation and OW2, Dec. 15, 2020
 - See Appendix 14.3

5 Videos

Project videos are hosted on the **SmartCLIDE YouTube channel**:

• Project's first introductory presentation.



6 Newsletters

We published a first newsletter grouping the blog posts presenting the key concepts of the SmartCLIDE project.

- Newsletter #1: Let's lay the foundation
 - See Appendix 14.4

7 Press releases

7.1 For the project launch

We published 5 press releases for the project launch:

• CONTACT Software is partner in European cloud project SmartCLIDE



- Eclipse Foundation Supports EU Funded SmartCLIDE Project
- Kairós DS participa en el proyecto SmartCLIDE financiado por la UE
- AIR Institute Supports EU Funded SmartCLIDE Project
- Press Release ATB Supports EU Funded SmartCLIDE Project

8 Posters, Flyers & Brochures

So far, we created a first general factsheet:

• SmartCLIDE Fact Sheet #1

9 Blog articles

In 2020, we published a total of 12 blog posts. It is interesting to notice that most of these articles have a usual content which can be considered as a resource for the project:

- The Horizon2020 project SmartCLIDE has officially started on 1st January 2020!
- SmartCLIDE: a new cloud-native IDE
- Machine Learning and Deep Learning: A power couple
- Cloud Computing in a nutshell
- Programming By Example
- Service Discovery in a Nutshell
- AGILE methodologies and DevOps
- Use Case: Real-Time Communication Service

10 Logo





11 Training materials

We are reserving the slot in this deliverable but do not expect to share the first training materials until the middle of the project.

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12 Open-source code

We are reserving the slot in this deliverable but do not expect to share the first open-source code until the middle of the project.

13 Conclusion

This deliverable listed all the assets that contributed to the promotion of SmartCLIDE during the first year of the project.

14 Appendix

14.1 Presentation: SmartCLIDE Pitch (Oct. 2020)







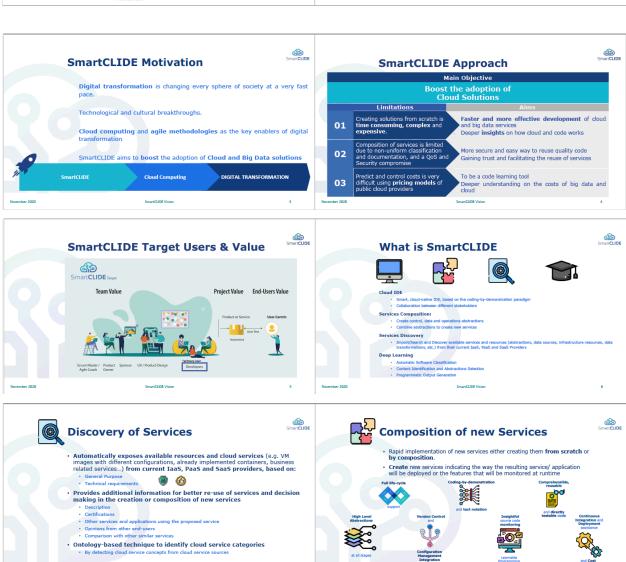




D6.3

14.2 Presentation: SmartCLIDE Vision (Nov. 2020)













14.3 Presentation: SmartCLIDE: Stairway to Cloud (Dec. 2020)

















14.4 Newsletter #1: Let's lay the foundation



The SmartCLIDE project will enable organizations on the path to digitalization to accelerate the creation and adoption of Cloud and Big Data solutions. The innovative smart cloudnative development environment will support creators of cloud services in the discovery, creation, composition, testing, and deployment of full-stack data-centered services and applications in the cloud.

Newsletter #1: Let's lay the foundation

We are launching our first SmartCLIDE newsletter with a set of articles presenting the pillars of our project: Cloud Computing, Deep Learning, the Integrated Development Environment, Service Discovery and Programming by Example.

Our partners have made a special effort to write for as broad a technical audience as possible, to provide a look into the state-of-the-art of the project pillars and to understand the innovations that the SmartCLIDE project plans to implement

If you would like to know more about our project, we invite you to visit the <u>SmartCLIDE.eu</u> website and <u>subscribe to our newsletter</u> to receive regular updates on our progress.

The SmartCLIDE team



Cloud computing in a nutshell

The a HIGH STEEL Cloud computing has become the platform for the new, global digital transformation stage we have entered to not only for our countries, governments and companies but also for each one of us. Our phone contacts, photos and messages are stored in...

[read more]



Machine Learning and Deep Learning:

a power couple

Buzzwords like Machine Learning and Deep Learning have been around for quite some time. We've always known that intelligent systems had been a promising technology that would enable us to search through vast amounts of ... [read more]



SmartCLIDE:

a new cloud-native IDE

Analyzing data is much easier and faster today thanks to cloud computing and on-demand availability of computer system resources such as data storage and computing power. However, the development of cloud solutions requires tools adapted to special characteristics of the cloud ..



Service Discovery in a

In recent years, Microsenrices have gained in popularity, since they come with various advantages, which are very useful for contemporary software development for example, in the era of containers, decentralization and cloud computing.



Programming by Example

Dy Examinue
The aim of Programming By Example is to
develop programs through the synthesis of a
series of examples. First, a sequence of actions
is performed or given by the user: this is the
starting point of a combination of functions which result in a programmatic output, ...

[read more]



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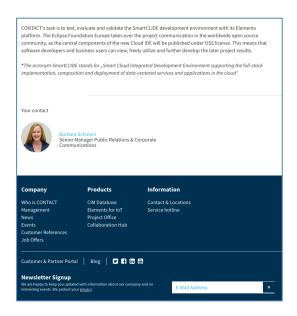
Want to change how you receive these emails?
You can <u>update your preferences</u> or <u>unsubscribe from this list.</u>





14.5 Press Release: CONTACT Software





14.6 Press Release: Eclipse Foundation





D6.3

14.7 Press Release : Kairós DS

reieuse : Ixun os Ds

KAIR©SDS NOSOTROS QUÉ HACEMOS INNOVACIÓN

Kairós DS participa en el proyecto SmartCLIDE financiado por la UE

por ADMINISTRADOR | Abr 1, 2020 | Innovación | 0 Comentarios



[Madrid, 31 de marzo de 2020] — Un consorcio europeo de once socios de Alemania, Grecia, Luxemburga, Portugal, España y Reino Unido ha arunciado el lanzamiento del proyecto SmartCUDE, un proyecto de investigación de 4,9 millones de euros financiado por el programa de investigación e innovación Horizonte 2020 de la Unión Europea.

El proyecto SmartCLIDE (Cloud, desp-Leaning, IDE, Discovery and programming-by-Example) ha comenzado su ancidura en enero de 2020, balo la coordinación del centro tecnológica alemina /REI Blemmen Institute for leopied Systems Technologic, El proyecto propone la creación de un novedoso entomo inteligente de desarrollo nativo para la nube, basado en el principio de programming-by-demonstratori, que consiste en erecelhar au nisistema informitico cómo ejecutar tareas a travels de la reproducción de ejempos. Su finalidad es encontrar nevasa mameras de impliar la adopción de soluciones Big Data en la nube, acercando el desarrollo Big Data a personal no técnico. PIMES e voginaziones del seserco polídico.

SmartCLIDE dia apoyo en los diferentes niveles de abstracción de la creación de servicios en la nube aplicando a todas las etapas del desarrollo de servicios full-stack data-centered. Habilita un self-discovery de servicios laaS y Saas capacitando al personal no técnico en el desolleuro de nuevos servicios.

El proyecto, que plantea uma arquitectura de referencia universal basada en microservicios, se aborda de manera colaborativa entre los once socios participantes. El centro de investigación heleno, CERTH (Centre for Rescarch and Technology Heliol) de institutio catellamine levela de investigación in intellegenia celtificial RIS, sons sido de de los centros que calcidamon con empresas de sorbavar como Contact Software. Raide DS, intrasoft themational, universidades como la de Macedonia, o los expertos en seguridad, calidad y estandarización del Software. The Qoe Roid Software in Software como Contact Software.

La solución propuesta incluye heramientas de clasificación inteligente de software, apoyo a pruebas automáticas y a la distribución continua de soluciones en la nube, todo desde una interfaz gráfica que incluye mútiples guiás visuales para los susurios. La solución SmartLUES excurrinyo sobre un enfolye de desarrollo dirigido como comportamiento Blodi, el cual habilla la sopritoquión de los usuanios en el proceso de desarrollo software para asegurar la entrega de valor continua desde una estapa temprana de los proyectos. Además, incluye um motor de aperendroje profundo Desp Learningí que ayudar à los desarrolladores de software a diseñar solucione que as adoptes perfectamente las necesidades de sos Clentes de manara segura, rápido y effica:

"La rube es el motor de la digitalización, pero muchas compañías todavía dudan en usario; dice Stefan Gregorzik, Business Development Manager en CONTACT Software: "Smart/LIDE deberá posibilitar la combinación de nequisitos de alta seguridad con una secrolla integración de sistemas y una busma experiencia de unación, y así amplas in acaptación de las sociociones en la nube".

"El cricimiento de la demanda de aplicaciones de uso intensivo de datos en la nube está impulsando la necesidad de una nueva generación de herramientas de desarrollo en la nube como SmartCLIDE," dijo Milke Milinkovich, Executive Director de Eclipse Foundatior "Estamos encantados de apoyar el recimiento de un ecosistema vibrante alrededor de esta tecnología innovadora".

La +unicación cripse apopira a comunicación de proyecto en la comunidad open source maniar y ayucar a a que los componentes centrales este move entorno de desemblo para la mube sea publicados bajo el open source Edipper Melic Leense (EVL) 20, el Apad Software Leense (ESL) 2.0, una licencia apen source compatible con el EPL 2.0. Esto significa que los desamiladores de software y los issuarios noferionales condicio sus cultifare entalitamente y cesario (Facencia) no los resultados en re

Más información sobre el proyecto SmartCLIDE está disponible en http://smartclide.eu

Sobre Kairós D

Kairós D'S se ha convertido en referencia internacional en el campo de la transformación digital apoyando compañías en su transformación digital con un nuevo modelo de project management en un proyecto individual, Agile en escala y niveles de gestión i portfolio.

Expertos en el desarrollo de producto digital "end to end" incorporando las mejores prácticas de desarrollo de software, un proceso que se está convirtiendo mucho más tradicional y oriocinal

Entrega continua de soluciones, centrándose en las necesidades de los clientes y las tecnologías digitales a través de la aplicación de conceptos Lean-Agile bajo la filosofía de Producto Minimo Viable (MPVI), proporcionando de este modo desarrollos iterativos, incrementales un centalidar

Klarios OS se centra en ayudur a sus Gentes a desarrollar rigidamente la habilidad de generación de valor en estos contextos taus combiantes. Nuestro profesionales representa a las companifica pare la pere a rese empresa basades en el centroles dunde los productos y los clientes son el centro de la organización, y los empleados son el motor de la transformación digital a travels de la agilidad e intramementajos. Esta es la razión por la calificación, divide of Setá basada fuertemente en el conocimiento y la adaptabilidas eligital, darbos apos os sus clientes para adaptarse de una forma efforza y segun al cambio digital.

Klarido DS está formado por más de 450 profesionales en todo el mundo. Aunque Klarido DS nació en España, su pluralidad y preocupación por conocer, mejorar y servir en diferentes geografías del planeta, le ha llevado a estar presente en España, México y Perú y llevando a cabo proyectos con clientes en UK, Brasil y USA.



Kairós DS Supports EU Funded SmartCLIDE Project

[Madrid, March 31, 2020] — A European consortium of eleven partners from Germany, Greece, Luxembourg, Portugal, Spain, and the United Kingdom has announced the launch of the SmartCLIDE project, a 64.9 million research project funded by the European Union's Horizon 2020 research and innovation program.

In January 2020, the SmartCLIDE (Cloud, deep-Learning, IDE, Discovery and programming-by-Example) project was created under the leadership of the Bremen Institute for Applied Systems Technology ATB. The project projects a new smart cloud native development environment Exader on the aciding-by-demonstration principle and to Egual its for fine way to boost the adoption of cloud and By-Data solutions in small and medium-sized enterprises and public sector organizations. SmartCLIDE provides support for cloud services creaters on different levels of abstraction at all stages of full-stack date-enterprise stacks and enables the elid-discovery of lasS and Salas services with the ultimate aim of providing a tool for empowering non-technical staff to deploy new services.

The project entails a strong cooperation between eleven research partners, the CERTH (Centre for Research and Technology Helsta and the Property of the Arrange of of the Arran

The architecture includes tools for classification and context-related configurations of software modules, automatic testing, and distribution of solutions, as well as providing generic interfaces to leading code service providers. The SmartLIDE solution builds on a behavior-of-wine development (BIDD) apposing, which enables the user derappement in the software development process at an entity stage and in an agile manner, in addition, a deep learning engine analyzes the application usage by means of mutitime monitoring. This All components will help software developers in the future to redesign their customer solutions to life perfectly and to detect and eliminate bugs at a faster rate.

«The cloud is the motor of digitization, but many companies are still hesitant to use it,» says Stefan Gregorzik, Business Development.

Manager at CONTACT Software. «SmartCLIDE should make it possible to combine high security requirements with easy system
integration and a good user experience, so that cloud solutions are widely accepted».

"Growing market demand for data-intensive cloud applications is driving the need for a new generation of cloud development tools like SmartLUBC," said Mike Milinkovich, executive director of the Eclipse Foundation. "We are thrilled to support the growth of a vibrant excession amount this invoxité we technolose."

The Eclipse Foundation will support project communication in the worldwide open source community and the central components of the new Good IDE will be published under the open source Eclipse Public License (EPI) 2.0 open source, the Apache Software License (SAS) 1.2.0 can an open source Ecnies compiled with the EPI 2.0 his means that software developers and business users will be able to view, freely utilize, and further develop the later project results.

More information about the SmartCLIDE project is available at http://smartclide.eu.

About Kairós DS

Kairós D5 has become an international reference in the field of digital transformation supporting companies in the transition towards a digital approach with a new model of project management at individual project, Agile at scale and portfolio management levels.

Experts in «end to end» digital product development incorporating the best software development practices, a process that is becomir much more traditional and core.

Continuous delivery of solutions, focussing on customers needs and digital technologies through the application of Lean-Agile concepts under Minimum Viable Product (MVP) philosophy, thus providing iterative, incremental and scalable developments.

Kairó So services are focused on helping their customers to develop their ability to swiftly generate value in these fast-changing contexts. Our professionals coach companies to become knowledge-based enterprises, where product and customers are the centre of the organisation, and employees are the engine of the digital shandomation through agilty and intra-enterpreneurship. That's the reason why Kairlós DS is strongly based on knowledge and digital adaptability, aiming at supporting their customers to smoothly and conflict contexts of their all shows.

Kairks DS is an organization supported by over 450 professionals all over the world. Although Kairks DS was born in Spain, its plurality, and our concern to know, raise and serve in different geographies of the planet. Has led us to be present at a physical level in Spain, Mexico and Peru and carrying out projects with UK clients, Brazil and USA.



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14.8 Press Release: AIR Institute





architecture based on microservices

The architecture includes tools for classification and context-related configurations of software modules, automatic testing, and distribution of solutions, as well as providing

generic interfaces to leading cloud service providers. The SmartCLIDE solution builds on a

deep learning engine analyzes the application usage by means of runtime monitoring. This Al component will help software developers in the future to redesign their customer solutions to fit perfectly and to detect and eliminate bugs at a faster rate.

behavior-driven development (BDD) approach, which enables the users' engagement in the software development process at an early stage and in an agile manner. In addition, a



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The Eclipse Foundation will support project communication in the worldwide open source community and the central components of the new cloud IDE will be published under the open source Eclipse Public License (EPL) 2.0 open source, the Apache Software License (ASL) 2.0, or an open source license compatible with the EPL 2.0. This means that software developers and business users will be able to view, freely utilize, and further develop the later project results.

More information about the SmartCLIDE project is available at http://smartclide.eu.

About ATB – Institut für angewandte Systemtechnik Bremen GmbH

ATB Institut für angewandte Systemtechnik Bremen GmbH is a non-profit organization, founded in 1991 by the State of Bremen, Bremen University and a group of industrial companies (Daimler AG, ATLAS ELEKTRONIK GmbH, BLG AG, OAS AG and OHB System AG). The main strategic business areas of ATB are Systems Analysis & Design, Knowledge Management (KM) and Software Systems Technology.

As applied research institute and in its role as knowledge transfer organization, ATB is active in national and international research projects. Furthermore, with a focus on SME support and to bridge the gap between commercial pressure on SMEs and the required ness, ATB is supporting the realization of research projects with a large industrial/ SME participation. To learn more, visit us at atb-bremen.de

> H2020 Project SmartCLIDE successfully started 17. February 2020 In "Aktuelles"

Research Report for 2016

2. August 2017 Similar post

Sebastian Scholze



Related Posts



The DIVERSITY project ended successfully! DIVERSITY (H2020 GA 636692) ended successfully with a final review meeting

CROSS-CPP



14.10 SmartCLIDE Fact Sheet #1



The SmartCLIDE project will enable organizations on the path to digitalization to accelerate the creation and adoption of Cloud solutions. The innovative, smart, cloud-native development environment will support creators of cloud services in the discovery, creation, composition, testing, and deployment of full-stack, data-centered services and applications in the cloud.

At a glance

Smart CLIDE
Smart Cloud Integrated Development Environment supporting the full-stack implementation, composition and deployment of data-centered services and applications in the cloud.

Project coordinator
Institut für angewandte Systemtechnik Bremen (DE) EC Contribution
64,935,381

Duration
36 months: 01/2020 – 12/2022
Further information

Context and motivation
The rapid advances in Cloud Computing, the Internet of Things, Big Data, Virtual / Augmented / Mixed Reality and Blockchain are changing every sphere of society at a very fast pace: the way people establish social relations and links, how companies do business, or how citizens and public Administration relate to each other.

Programme H2020-ICT-2019-2

http://smartclide.eu

Air

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Challenge
In this context, when companies face the creation or composition of new services for their clouds, they have three alternatives with their own problems/limitations:

• Development of services from scratch invokes high complexity due to the wide variety of technologies that need to be used in the whole stack. It is expensive and time consuming.

tonipecity use to the whee variety of terminotipes united to be used in the whole stack. It is expensive and mechanism of the consuming materializes are rivies by composition: Existing materializes are tightly coupled to lass and seaso providers, and they are not always uniformly classified or well documented, so the discovery of valuable and secure services is generally a manual process and validity is demonstrated by trial and error.

Pricing models of public cloud providers are very complex since they combine different variables depending on the type of service. These variables can be time of usage, resources used (memory, storage, processing capacity), volume (thousands) of predictions obtained (in the case of machine learning algorithms), volume of data transferred and many more. This fact makes the calculation of costs extremely difficult to predict, and therefore to control.



Solution
The main objective of SmartCLIDE is to overcome the previous limitations by proposing a radically new, smart, cloud-native development environment, based on the coding-by-demonstration principle, that will support creators of cloud services in the discovery, creation, composition, testing and deployment of full-stack, data-centered services and annibications in the cloud.



SmartCLIDE will provide high level abstractions at all stages (requirements, design, development, testing, deployment and run-time) as well as self-discovery of lass and SaaS Services. SmartCLIDE will provide several categories of abstractions: at development stage. SmartCLIDE will provide abstractions on data transformations or processing at testing stage. The stage of the stage of the stage abstractions or processing at testing stage, and the stage of the stage abstractions or processing at testing stage, and the stage abstractions of polysical and virtual resources; or at nu-time, mechanisms to monitor the performance and operation of the service. The cloud nature of the environment will enable collaboration between different stakeholders, and the self-discovery of Isas and SaaS services and the high-levels of abstraction will facilitate the composition and deployment of new services to non-technical staff (with no previous experience on programming or on the administration of reservices to non-technical staff (with no previous experience on programming or on the administration of systems and infrastructure, Equally, Inding the complexity of the infrastructure decision of the more adequate infrastructure services in each case.

SmartCLIDE will allow SMEs and Public

SmartCLIDE will allow SMEs and Public Administration to boost the adoption of Cloud solutions, being validated by one solution oriented to Public Administration (Social Security System) and three different IoT and Big Data products from software development SMEs within the constortium.

Expected impact
To evaluate the impact of SmartCLIDE, the consortium
to evaluate the impact of SmartCLIDE, the consortium
to supply considering the cost and income
tions of all the supply considering the cost and income
tions of all the supply considering the carried out during the last of months of the project,
when the final version of SmartCLIDE colution will be
radly to be assessed in the Pilot Case. Socio-consumic
impacts, which require a wider time span to be measured,
will be properly drafted for their measurement after
project completion.

- IMPACT 1. Contribute to the development of an ecosystem that will respond to the future digitization needs of industry and the public sector.
- IMPACT 2. Assist the development of new cloud-based services and infrastructures in Europe and foster an industrial capability in the cloud computing sector.
- IMPACT 3. Create new opportunities to encourage European-based providers, in particular SMEs, to develop and offer cloud-based services based on the most advanced technologies.
- IMPACT 4. Leverage research and innovation projects to support the development and deployment of innovative cloud-based services and next generated inapplications, for the public and private sectors (including standardization and applications for Big-Data and other sector-specific applications).





In this context, business organizations and public bodies are submerged in deep digital transformation processes that involve profound cultural and technological breakthroughs. Cloud computing can be considered as the key enabler of the digital transformation since it has managed to engage compusine' eagerness for growth and the traditional need to acquire more powerful

