Tailored IoT & BigData Sandboxes and Testbeds for Smart, Autonomous and Personalized Services in the European Finance and Insurance Services Ecosystem

# **EoInfinitech**

# D8.5 – IoT and Blockchain Solutions Marketplace

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Lead Beneficiary	UNP
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# **Revision History**

Version	Date	Partner(s)	Description
0.1	2021-09-27	UNP	Draft, Table of Content
0.2	2021-10-02	UNP	Marketplace Front-end Update
0.3	2021-10-16	UNP	Marketplace Usage Scenarios
0.4	2021-10-20	UPRC, INNOV	Additional Contributions
0.5	2021-10-26	UNP	Minor improvements
0.9	2021-11-05	UNP	Version for internal review
1.0	2021-11-10	UNP	Final version

 $<sup>^{\</sup>mathrm{1}}$  Lead Beneficiary, Contributor, Internal Reviewer, Quality Assurance

<sup>&</sup>lt;sup>2</sup> Can be left void

## **Executive Summary**

This document provides an overview of the INFINITECH marketplace, which was established to provide access to the project's solutions, but also with a Virtualized Digital Innovation Hub (VDIH) to support the innovators (FinTech/InsuranceTech) in their BigData, AI, Blockchain and IoT endeavours.

Initially, two marketplaces were defined to offer the solutions and VDIH services regarding the project, but to facilitate the access to the information and create a large community around the INFINITECH, the INFINITECH Marketplace has been realized as one solution that brings together all the solutions and VDIH services. The INFINITECH Marketplace is therefore the result of the effort of two tasks, which are working together, T8.2 "BigData and AI Solutions Marketplace" and T8.3 "IoT and Blockchain Solutions Marketplace".

The current report is based on the architecture and the overall specification of the marketplace as defined in deliverable D8.2, with an emphasis on the INFINITECH Marketplace front-end, while deliverable D8.3 focuses on the back-end of the marketplace. Several updates have been introduced in the deliverable, including the updates on the front-end to realize a section to offer all the VDIH services that are up to now present on the INFINITECH Marketplace. Through that section (i.e. VDIH) of the marketplace, courses, workshops, webinars and accelerator programmes are made available.

In addition to the updates, new functionalities were added to create a community around the INFINITECH Marketplace, allowing users to interact with the platform. For this, the social login was implemented, and once registered, any INFINITECH user can provide information to the platform, through the forms available on each content page.

Based on updates on the front-end, the INFINITECH Marketplace offers a digital finance ecosystem where the users can know more about BigData, AI, Blockchain and IoT and share their solutions and services (assets, courses, webinars, workshops and accelerator programmes). The user can be an information consumer, but also an information provider, and each approach is exemplified through scenarios.

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# Abbreviations/Acronyms

Abbreviation	Definition
Al	Artificial Intelligence
IoT	Internet of Things
SMEs	Small and medium-sized enterprises
VDIH	Virtualized Digital Innovation Hub

## 1 Introduction

INFINITECH provides a complete integrated environment that allows the utilization of IoT, Blockchain, BigData and AI techniques in the finance and insurance sectors. This was made possible through a set of solutions and VDIH services to be exploited in a market platform that will support innovators (FinTech/InsuranceTech) in their endeavours, making it an entry-point to the innovation management services of the VDIH.

The INFINITECH Marketplace is a multi-sided platform that offers IoT, Blockchain, BigData and AI solutions and VDIH services for finance/ insurance. It is a public web-based environment that provides user registration and product/catalogue functionalities. All information is available to the public via login. Anyone can be part of this network, and as a INFINITECH user can consult but also contribute with information.

The INFINITECH Marketplace is available at:

https://marketplace.infinitech-h2020.eu

## 1.1 Objective of the Deliverable

The objective of this deliverable is to provide the updates made to the INFINITECH Marketplace front-end. The INFINITECH Marketplace is structured around 2 main building blocks, front-end and back-end, the end-users can interact with the Marketplace platform through the front-end, while other additional services can be implemented directly with the back-end.

With the evolution of information, the INFINITECH Marketplace was updated to support new content and more diversified information. As well as new features were added to allow the users to interact with the platform.

## 1.2 Insights from other Tasks and Deliverables

This deliverable is an evolution of the deliverable D8.2 "Market Platform and VDIH Specifications – II", which is in turn an updated version of D8.1 "Market Platform and VDIH Specifications I". Both focusing on the architecture and specifications of the INFINITECH Marketplace.

The INFINITECH Marketplace is the effort of two tasks, which are working together, T8.2 "BigData and AI Solutions Marketplace" and T8.3 "IoT and Blockchain Solutions Marketplace". The tasks refer two Marketplaces, but the INFINITECH Marketplace has been realized as one solution that brings together IoT, Blockchain, BigData and AI solutions and VDIH services. A single Marketplace not only facilitates the access to information, but it also allows to create a larger community around the INFINITECH.

D8.5 (this deliverable) and D8.3 "BigData and AI Solutions Marketplace - I" are complementing each other, while the D8.5 focuses on updates to the INFINITECH Marketplace front-end, D8.3 focuses on updates to the back-end.

#### 1.3 Structure of the Document

The rest of the deliverable is structured as follows:

 Marketplace Front-end Update: Contains an overview of updates to the INFINITECH Marketplace front-end, which includes updates in the structure itself, updates in existing pages, new pages created and new functionalities added.

- Marketplace Usage Scenarios: Contains scenarios that represent different approaches of INFINITECH Marketplace usage. The scenarios presented are just examples: user being an information consultant and an information provider.
- Conclusions: Description of the results obtained and next steps.
- Appendix A -New PagesError! Reference source not found.: Contains the pages of each VDIH c ontent.
- Appendix B -Marketplace Forms: Contains the forms for the user to provide information to the INFINITECH Marketplace.

## 2 Marketplace Front-end Update

This chapter contains an overview of the updates and improvements to the INFINITECH Marketplace frontend. The structure initially defined was reorganized to accommodate the new content and facilitate the navigation within the INFINITECH Marketplace. New pages were created, and some existing ones were improved. This update also brought new functionalities to the INFINITECH Marketplace users.

The structure of the INFINITECH Marketplace was updated, the main update was in the VDIH page, previously named INFINITECH Academy. The name was changed to match the focus of the INFINITECH Marketplace that is "...establish a market platform that will provide access to the project's solutions, along with a Virtualized Digital Innovation Hub (VDIH) that will support innovators (FinTech/InsuranceTech) in their BigData/ Al/IoT endeavors". In the Figure 1 it is possible to see the current structure of the INFINITECH Marketplace.

The diversity among VDIH resources led to the organization of the page into Training Activities and Innovation Services. While Training Activities page includes courses, webinars and workshops, the Innovation Services page include the accelerator programmes. For each type of VDIH content was created a new page, which brings together all the resources present on the platform related to that content.

The updates aren't restricted to the structure of the INFINITECH Marketplace, it was updated pages to support new functionalities and new pages was created to present new content, as will be explained through the chapter.

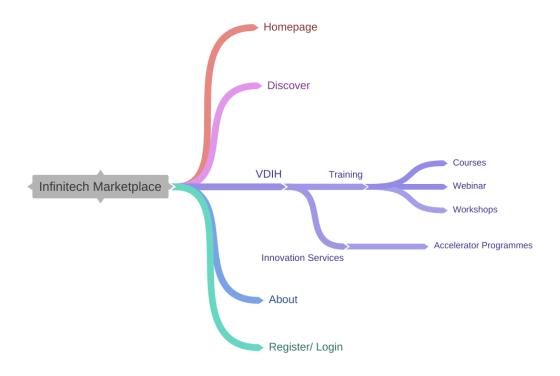


Figure 1: INFINITECH Marketplace Structure

## 2.1 Homepage

The Homepage (Figure 2) gives an overview of the INFINITECH Marketplace, in this sense it has been updated to include new resources and highlight new functionalities. This page is structured in different sections and currently provides:

- Statistics of all the resources available;
- Access to Infinitech Assets page;
- Access to Infinitech VDIH page;
- Access to new features.

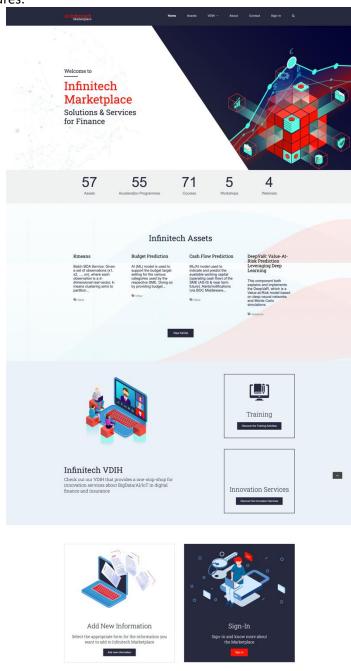


Figure 2: Homepage

The statistics show the type and the number of resources available on the platform. As it can be seen in the Figure 3, presently the INFINITECH Marketplace contain assets, courses, workshops and accelerator programmes, corresponding to a total of 192 resources.

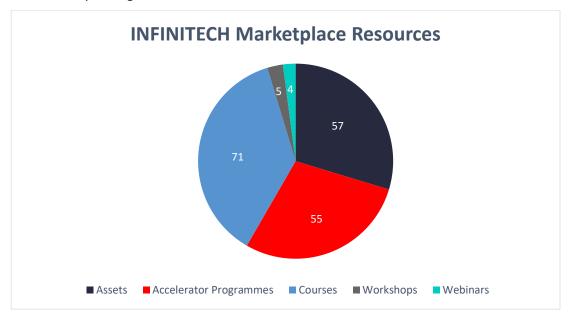


Figure 3: INFINITECH Marketplace Resources

The Infinitech Assets section provides access to the assets page and the Infinitech VDIH section provides access to Training Activities and Innovation Services. Both sections were visually updated, making it easier to access the resources.

The last section of the Homepage is dedicated to new functionalities and has been updated to highlight social login (Sign in) and forms (Add New Information). The forms allow the INFINITECH users to provide information to the platform. This new feature will be explained in the New Functionalities of Marketplace section.

#### 2.2 Assets

The assets information becomes more varied and to deal with heterogeneity among assets the approach to collect and display information has been rethought. If before the asset structure was restricted to specific fields that followed an order, now it is more flexible to support different types of information, such as links, PDFs, videos, among others, but also to allow the information to tell a story.

Figure 4 shows an example of a custom structure, where the asset information includes resources (GitHub, docker and Swagger) with access to them via link, following a detail explanation of them, a Tutorial.

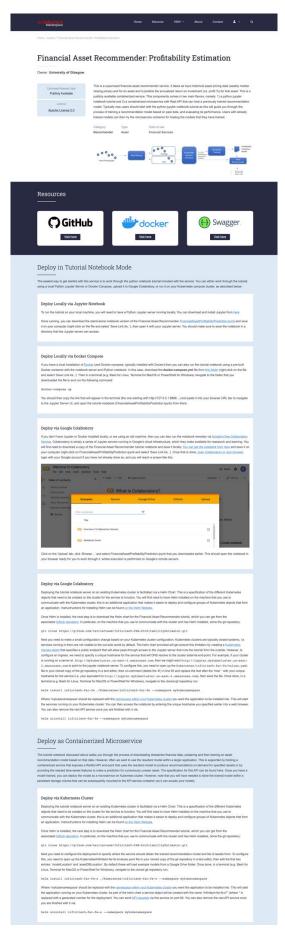


Figure 4: Financial Asset Recommender: Profitability Estimation

Table 1 provides the names and respective link (to the INFINITECH Marketplace page) of all assets available so far on the platform, which correspond a total of 57 resources.

Table 1: Assets

Assets	Link
Anomaly Analysis	<u>link</u>
Anonymized Customer Banking Data Datasets	link
Benchmark(s)	<u>link</u>
Blockchain Authenticator	<u>link</u>
Blockchain Data Visualizer	<u>link</u>
Blockchain Decryptor	link
Blockchain Encryptor	link
Blockchain Reader	<u>link</u>
Blockchain Transaction Dataset Preparation Component	<u>link</u>
Blockchain Writer	<u>link</u>
Budget Prediction	<u>link</u>
Cash Flow Prediction	<u>link</u>
Data Collection component	<u>link</u>
DPO (Data Protection Orchestrator)	link
DUOS (Digital User On-boarding Services)	link
EASIER-AI	<u>link</u>
Filtering	<u>link</u>
Fraud Detection Model	<u>link</u>
Fraud Detection Service Execution	link
Fraud Detection Service Training	<u>link</u>
Health insurance fraud detection service	<u>link</u>
Health insurance risk assessment service	<u>link</u>
Incremental Analytics	<u>link</u>
Invoice Processing	<u>link</u>
IoT Agent (no longer need, because is part of SmartFleet Platform)	link
Joiner	link
Kmeans	link
KPI Engine	link
OneHotEncoder	link
Open API Gateway	link
Pattern Analysis	link
Pay As You Drive Model	link

Assets	Link
Pay As You Drive Service Execution	<u>link</u>
Pay As You Drive Service Training	<u>link</u>
Random Forest (Model)	<u>link</u>
Random Forest (Predict)	<u>link</u>
Real Time Visualization	<u>link</u>
Recommender	<u>link</u>
Scalable Transaction Graph Analysis Component	<u>link</u>
Simulated Vehicles Data Set	<u>link</u>
Smart Contract Executor	<u>link</u>
SmartFleet Platform: IoT Context Management and Historical data component	<u>link</u>
SPeIDI (Service Provider eIDAS Integration)	<u>link</u>
Stream Story	<u>link</u>
Synthetic RWD for well-being analytics	<u>link</u>
Transaction (Txn) Categorization	<u>link</u>
Transaction (Txn) Monitoring	<u>link</u>
User Interface for Blockchain Transaction Reports and Visualization Component	<u>link</u>
Vehicles Data Set (Vigo)	<u>link</u>
Visualization Preparation	<u>link</u>
Well-being outlook classifiers	link

#### **2.3 VDIH**

As mentioned previously, the INFINITECH Academy page has been reformulated to accommodate the new content, it is currently the VDIH page. The name has been changed to match the focus of the INFINITECH Marketplace. The page also was organized into Training Activities and Innovation Services, while the Training Activities include courses, workshops and webinars, the Innovation Services includes acceleration programmes. Accelerator programmes are services to support and guide startups and SMEs on the creation of innovation through experts advisory, co-working space, education and skills development, among others.

As presented in Figure 5, the INFINITECH Marketplace currently has a total of 135 VDIH resources, which correspond to courses, workshops, webinar and accelerator programmes.

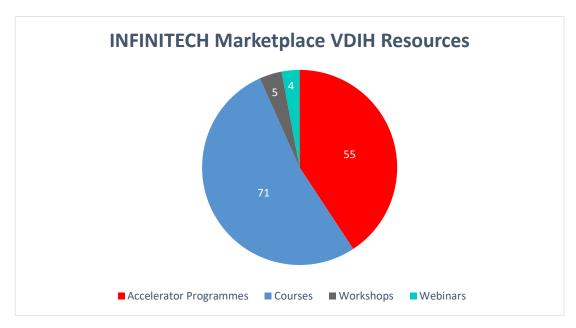


Figure 5: INFINITECH Marketplace VDIH Resources

All VDIH content pages are similar and Figure 6 shows the Courses page as a demonstration of these pages. The VDIH pages provide all the resources available on the platform related to that type of content, as well as provide some features for the user:

- 1. **Filter by source:** It allows to differentiate the source of the resources, if it belongs to INFINITECH partners or external entities, through the options: ALL, INFINITECH Course (in the case of the demonstration) or External.
- 2. **Red Flag with the INFINITECH symbol:** Related with the filter, it allows to differentiate the source of the resources, highlighting the resources which belongs to INFINITECH partners.
- 3. Add new resource: In this case, appear "Add new course", the button gives access to the course form. Each VDIH as its own form that allows the INFINITECH users to provide information. This feature will be explained in the New Functionalities of Marketplace section.

Appendix A - New Pages provides information on all the VDIH content, which will be identified and described throughout the following subsections.

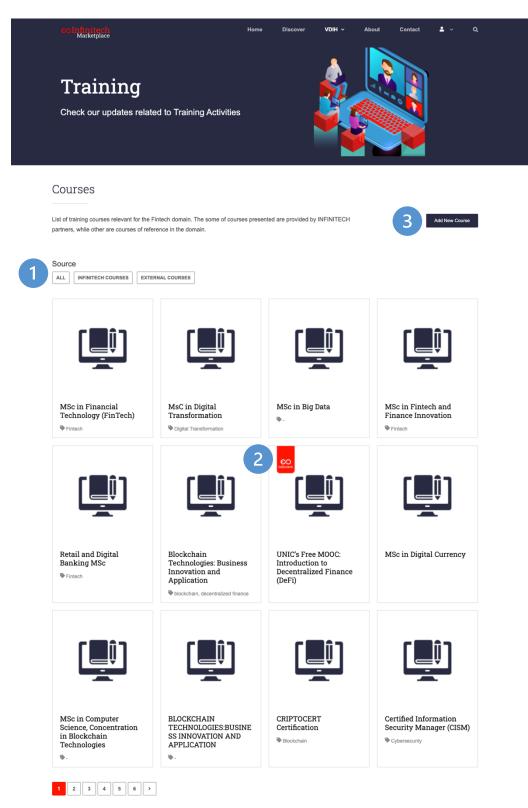


Figure 6: Courses page demonstrating features

#### 2.3.1 Training Activities

The INFINITECH Marketplace is a network with relevant resources about IoT, Blockchain, BigData and AI for finance/ insurance. Training Activities is a new page of this network with a variety of courses, workshops and webinars that offer INFINITECH users the opportunity to improve their skills, knowledge or expertise.

#### 2.3.1.1 Courses

The Courses page (Figure 11) list all the courses available on the INFINITECH Marketplace. Each course has its own page, with information that characterizes it, such a brief description, who provided the course, difficult level, duration, cost, platform where the course will be available, among others. In addition to, the user also can know more about the course through the website present on the page.

Table 2 shows all courses available on the INFINITECH Marketplace so far, a total of 71 VDIH resources.

Table 2: Courses

Courses	Link
MSc in Blockchain and Digital Currency	link
UNIC's Free MOOC: Introduction to Digital Currencies	link
MSc in Computer Science, Concentration in Blockchain Technologies	link
Digital Transformation in Financial Services Specialization	link
Innovation Strategy: Developing Your Fintech strategy	link
Future Development in Supply Chain Finance and Blockchain Technology	link
Machine Learning and Reinforcement Learning in Finance Specialization	link
FinTech: Finance Industry Transformation and Regulation Specialization	link
Using Machine Learning in Trading and Finance	link
Reinforcement Learning in Finance	link
Fundamentals of Machine Learning in Finance	link
Overview of Advanced Methods of Reinforcement Learning in Finance	link
Supply Chain Finance and Blockchain Technology Specialization	link
Blockchain, Cryptoassets, and Decentralized Finance	link
Introduction to Blockchain for Financial Services	link
Blockchain Transformations of Financial Services	link
Blockchain Revolution Specialization	link
Digital transformation-Finance-Strategies	link
Open Banking, PSD2 and GDPR. FinTech	link
Finance and Accounting in the Digital Age	link
Artificial Intelligence for Finance, Accounting & Auditing	link
Complete 2-in-1 Python for Business and Finance Bootcamp	link
Practical Machine Learning: Real World Projects In Finance	link
Al for Finance	link
Mastering FinTech and Machine Learning!	link
Machine Learning Practical: Real World Projects In Finance	link
FinTech – Prepare for the revolution in Finance	link
Blockchain For Business+Finance Professionals 2019 – NEW	link

Blockchain In Banking Industry & Enterprise Application  Al and Blockchain: A Disruptive Integration  Introduction to FinTech  Fintech: Blockchain for Business and Finance  Fintech: Al & Machine Learning in the Financial Industry  Deep Learning and Neural Networks for Financial Engineering  FinTech Ethics and Risks  Classical Machine Learning for Financial Engineering  Fintech: Overview of the Fintech Sector  Blockchain and FinTech: Basics, Applications, and Limitations  Introduction to Hyperledger Blockchain Technologies  Blockchain: Understanding Its Uses and Implications  Blockchain: Understanding Its Uses and Implications  Blockchain Technologies: Business Innovation and Application  UNIC'S Free MOOC: Introduction to Decentralized Finance (DeFi)  Mink  MSc Financial Technology  Master in Financial Technology and Computing  EIT Digital Master School  Master in FinTech & Business Analytics EADA – ISDI  Data Strategy Executive Program  Block in Digital Transformation  Fintech program  MsC in Digital Transformation  Fintech program  Ink  MSC in Data Science & Analytics  MSC in Data Science & Analytics  MSC in Data Science & Deep Learning  If MSC in Data Science & Deep Learning  Ink  MSC in Data Science & Deep Learning  Ink  MSC in Data Science & Deep Learning  Iink  MSC in	Courses	Link
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Embedded Security Engineering Link	BsC Business Information Technology	link
<u> </u>	PhD Winter School	link
Digitalization of Finance	Embedded Security Engineering	link
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Courses	Link
Certified Information Security Manager (CISM)	<u>link</u>
CRIPTOCERT Certification	<u>link</u>
MSc in Big Data	<u>link</u>
BLOCKCHAIN TECHNOLOGIES:BUSINESS INNOVATION AND APPLICATION	<u>link</u>
MSc in Computer Science, Concentration in Blockchain Technologies	<u>link</u>
MSc in Digital Currency	<u>link</u>
Retail and Digital Banking MSc	<u>link</u>
MSc in Fintech and Finance Innovation	<u>link</u>
MSc in Financial Technology (FinTech)	<u>link</u>

#### 2.3.1.2 Workshops

The workshops page (Figure 12) list all the workshops present on the INFINITECH Marketplace. Each workshop has its own page, with information that characterizes it, such a brief description, duration, who are the speakers, presentation files, videos and more like it can be viewed in figure.

Table 3 lists all workshops available on the INFINITECH Marketplace to date, being a total of 5 VDIH resources.

Table 3: Workshops

Workshops	Link
Decentralized Finance (DeFi) Webinar: Where do we stand and where do we go?	<u>link</u>
INFINITECH Stakeholders Workshop Series: "BigData and Artificial Intelligence for Portfolio Risk Assessment"	<u>link</u>
INFINITECH Stakeholders Workshops Series: "Artificial Intelligence and Big Data analytics applied to Personalised, Usage Based and Configurable Insurance Products"	<u>link</u>
INFINITECH Stakeholders Workshops Series: "Blockchain Applications for Digital Finance"	<u>link</u>
INFINITECH Stakeholders Workshops Series: "Risk Profiling and Portfolio Optimization for broader Use Cases"	<u>link</u>

#### 2.3.1.3 Webinars

The Webinars page (Figure 13) brings together all the webinars available on the INFINITECH Marketplace. Each webinar has its own page, with some information that characterizes it, such as a brief description, date, organizer, as well as additional files and videos.

Table 4 lists all the webinars present on the INFINITECH Marketplace so far, making a total of 4 VDIH resources.

Table 4: Webinars

Webinars	Link
Blockchain-enabled Consent Management	<u>link</u>
ERC1155 Token Smart Contract for Hyperledger	<u>link</u>
KYC/KYB On-Chain Data Governance	<u>link</u>

Webinars	Link
Tokenization on Hyperledger Fabric -ERC20 chaincode	<u>link</u>

#### 2.3.2 Innovation Services

Innovation Services page was added to the INFINITECH Marketplace network and that's where we can find accelerator programmes information. The Innovation Services intends to be a page where the user can find content to get support to a self-determined and sustainable approach to digital pioneering and help to accelerate businesses and guide it into the future to achieve better results.

#### 2.3.2.1 Accelerator Programmes

The Accelerator Programmes page (Figure 14) brings together all the accelerator programmes existent on the INFINITECH Marketplace. Each accelerator programme has its own page, with some information that characterizes it, such as the services that provide and who are the beneficiaries of these services, as well the methodology, sector, among others. In addition to, the user can know more about the service through the website available on the page.

Table 5 provides information on the accelerator programmes available on the INFINITECH Marketplace to date, a total of 55 VDIH resources.

Table 5: Accelerator Programmes

Accelerator Programmes	Link
Distributed Ledgers Research Centre (DLRC)	<u>link</u>
Gravity Ventures Incubator	<u>link</u>
Wayra	<u>link</u>
Visa Innovation Program	<u>link</u>
University of Valencia Science Park DIH	<u>link</u>
TVT Innovation – Pôle Mer Méditerranée	<u>link</u>
The LHoFT	<u>link</u>
Sunrise Valley Digital Innovation Hub (SV DIH)	<u>link</u>
StartupUtrecht	<u>link</u>
Startup Palace	<u>link</u>
Start-up Nation Central	<u>link</u>
Start-up garage	<u>link</u>
SmartCityTech	<u>link</u>
Seedrocket	<u>link</u>
Santaka Artificial Intelligence DIH	<u>link</u>
Portugal Fintech	<u>link</u>
Plug and Play	<u>link</u>
Nyuko a.s.b.l.	<u>link</u>
Novel-T	<u>link</u>

Accelerator Programmes	Link
Madeira Digital Innovation HUB	<u>link</u>
Luxinnovation	<u>link</u>
Le Pool French Tech Rennes St Malo	link
Lanzadera	<u>link</u>
IOT DIH	<u>link</u>
IRIS: European Digital Innovation Hub Navarra	<u>link</u>
AddedValue	<u>link</u>
Intelligent Urban Lab	<u>link</u>
INFOBALT DIH	<u>link</u>
Hub 612	<u>link</u>
Holland Fintech	<u>link</u>
Hellenic Blockchain Hub	<u>link</u>
Greek Fintech Hub	<u>link</u>
Frankfurt School Blockchain Center (FSBC) at the Frankfurt School of Finance & Management gGmbH (FS)	<u>link</u>
FinTech Scotland	<u>link</u>
FinTech Innovation Hub   Bank of Greece	<u>link</u>
Fintech District	<u>link</u>
Fintech Cluster	<u>link</u>
Fintech Aviv	<u>link</u>
Espaitec Science and Technology Park	<u>link</u>
Emprende UP	<u>link</u>
DigitalNorway	<u>link</u>
DIGIHALL	<u>link</u>
Cybersecurity Innovation HUB	<u>link</u>
CUATRECASAS ACELERA	<u>link</u>
Conector	link
Centre Val de Loire Digital Innovation Hub	link
Bridgeway Europe Startup Accelerator, Bridgeway Accelerator	<u>link</u>
BlackFin Tech	<u>link</u>
Bboster	<u>link</u>
AIR4S – Artificial Intelligence & Robotics for Sustainable Development Goals	<u>link</u>
AI4GALICIA: Artificial Intelligence for Galicia	<u>link</u>
Accelerator Frankfurt	<u>link</u>
Emerging Transactional and Financial Technology Hub (ETFTH)	<u>link</u>

Accelerator Programmes	Link
Insomnia	<u>link</u>
Copenhagen Fintech	<u>link</u>

## 2.4 New Functionalities of Marketplace

In order to create community around the INFINITECH Marketplace and enrich it with new information, the following functionalities were added to allow the users interact with the platform:

- Social Login: The registration process was simplified and facilitated.
- Add new information: Any INFINITECH user can provide information.

#### 2.4.1 Social Login

One of the objectives of the INFINITECH is to create a digital finance ecosystem of innovation, with IoT, Blockchain, BigData and AI solutions and services. For this purpose, the Social Login was implemented in the INFINITECH Marketplace to connect the stakeholders and expand the INFINITECH community being an entry point for the community to access and provide information.

The Social login offers a simplified, quick, and easy registration, helping the users to sign-up on a third-party platform using their existing login information from social media networks, like Google, LinkedIn, and GitHub (Figure 7).

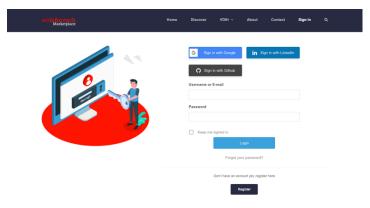


Figure 7: Social Login

#### 2.4.2 Add New Information

In order to enrich the digital finance ecosystem of innovation, it was created forms to give the users the opportunity to share their solutions and services on the INFINITECH Marketplace, because it is important that information continues to evolve and increase.

Anyone can be part of this community, by registering, and as a INFINITECH user it is possible to provide information to the INFINITECH Marketplace. The users have different forms available, depending on the content they want to add (assets, courses, workshops, webinars, and accelerator programmes).

Through the Homepage the users can access all the forms available in a single place (Figure 8) or go through the respective content page (Appendix B -Marketplace Forms).

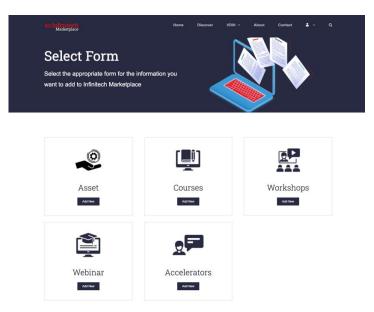


Figure 8: Select Form

## 3 Marketplace Usage Scenarios

The INFINITECH Marketplace is a good source of information, where can be found solutions and services about IoT, AI, Blockchain and BigData in context of finance/ insurance. It is very important to enrich the information available and for this the users will be capable to provide information, but also to take advantage of it.

So, this means, that can be seen from 2 perspectives, the user as an information provider and the user as information consumer. Both perspectives can be explored through the following scenarios that represent examples of the INFINITECH Marketplace usage:

- Scenario 1: A user who want add information to the INFINITECH Marketplace.
- Scenario 2: A user who want to know more about workshops in the finance domain.

#### 3.1.1 Scenario 1: Upload a VDIH

Scenario 1 represents a user who want provide information to the INFINITECH Marketplace. For example, to upload a blockchain Course. For this, the user needs to follow a few steps:

- Step A: Sign in.
  - Step A1: If the user isn't registered, they will have to <u>register</u> first and then they will be able to login.
- Step B: Access to the form, which can be done through:
  - Step B1: Homepage, which gives access to all available forms.
  - Step B2: <u>VDIH page</u>, which is organized in "Training" and "Innovation Services". The user must go through Training to access the <u>Courses page</u> and select "Add New Course".
- Step C: Fill in the <u>Course form</u>. The first fields of the form refer to the provider (Your Information) and the other to the Course (Course Information). Some fields are mandatory, those that are identified with a \*.
- **Step D:** When submitting the information, it is moderated by the consortium.
- **Step E:** The Course is published on the INFINITECH Marketplace.

Figure 9 show the aspect of a Course which was added to the INFINITECH Marketplace through Course form.

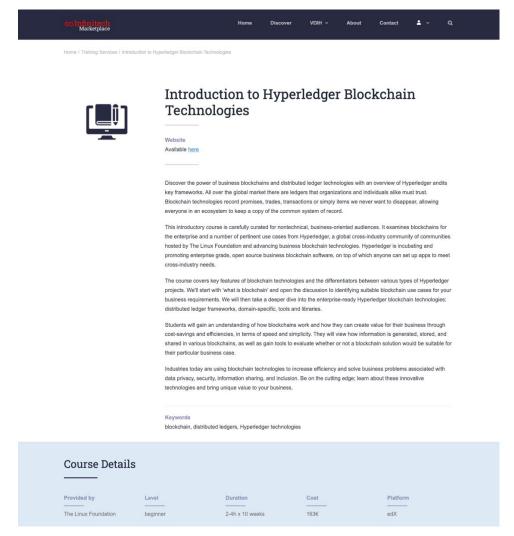


Figure 9: Introduction to Hyperledger Blockchain Course

#### 3.1.2 Scenario 2: Consult a VDIH

Scenario 2 represents a user that want to know more about blockchain Workshops in finance domain. The INFINITECH Marketplace has a VDIH section and in this section, the user can consult Workshops, but also other types of content are available about IoT, Blockchain, BigData, AI for finance and insurance (Courses, Webinars and Accelerator Programmes).

On the Workshops page the user can get an idea of the information present on the platform through the names of the workshops and start by selecting one that seems to be of interest to him. On the respective workshop page, the user can find out more about the workshop, exploring the description and the agenda, among other additional information, and only follow the parts that fit their interests. The user can manage their time and later consult the presentation files that are available online.

To obtain more detailed information the user can contact the consortium and receive all the information that needs. Figure 10 represents an example of Workshops available at the INFINITECH Marketplace and we can see the sections it was mentioned before.

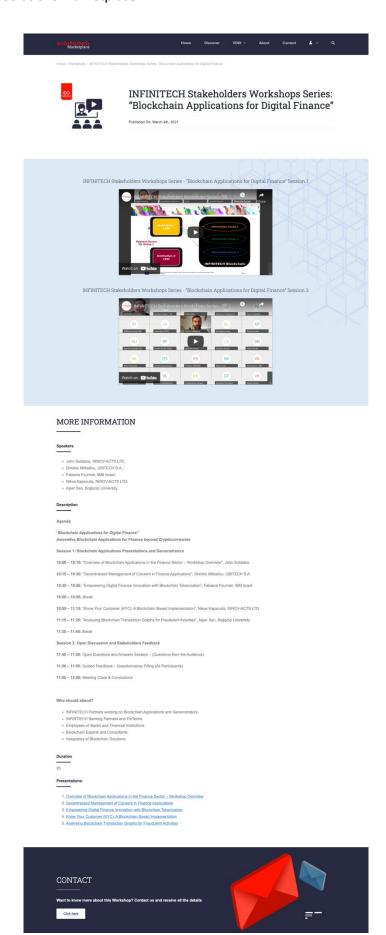


Figure 10: INFINITECH Stakeholders Workshops Series: "Blockchain Applications for Digital Finance"

## 4 Conclusions

This document gives an overview of the updates to the INFINITECH Marketplace front-end. The updates to the back-end are inputs to the deliverable D8.3.

One of the objectives of the project is to develop marketplaces for IoT/ Blockchain and BigData/ AI solutions as part of the multi-side market platform and VDIH. For that purpose, in order to facilitate the access to information, but also to create a large community around the INFINITECH, the INFINITECH Marketplace was created as one solution that brings together all the solutions and VDIH services regarding the project. The INFINITECH Marketplace front-end offers the users the entire core of IoT, Blockchain, BigData and AI solutions and VDIH services for finance/ insurance in a single place (available <a href="here">here</a>).

The information provided by the INFINITECH partners evolved, becomes more diversified and heterogeneous. To deal with this challenge, the structure of the INFINITECH Marketplace was updated to accommodate the new content (courses, webinars, workshops and accelerator programmes). The INFINITECH Academy was renamed VDIH to match with the focus of the INFINITECH Marketplace and was organized by Training Activities, that include courses, webinars and workshops, and Innovation Services, that includes accelerator programmes. For the other hand, to support the heterogeneity among assets, the INFINITECH Marketplace gives the possibility to customize the asset layout, allowing to display more varied information.

To promote the growth of the INFINITECH Marketplace community, the registration process was simplified and facilitated with the implementation of the social login. The user can register using the identity already created in a social network (Google, LinkedIn, or GitHub). Once registered, the user can provide information to the INFINITECH marketplace network. For this, a set of forms were created and can be easily found on the platform.

The users can interact with the INFINITECH Marketplace by consulting the available information but also providing information. At the moment of the submission of the deliverable the current status of the resources available corresponds to a total of 192, which is the sum of the following content:

- 57 Assets
- 55 Accelerator Programmes
- 71 Courses
- 5 Workshops
- 4 Webinars

Regarding next steps, the focus will be on further updates of the front-end building block of the INFINITECH marketplace, while also including new components to support new types of information (assets, training activities and innovation services).

# Appendix A - New Pages

The section provides an overview of the new INFINITECH Marketplace pages:

- Courses
- Workshops
- Webinars
- Accelerator Programmes

## Courses Page

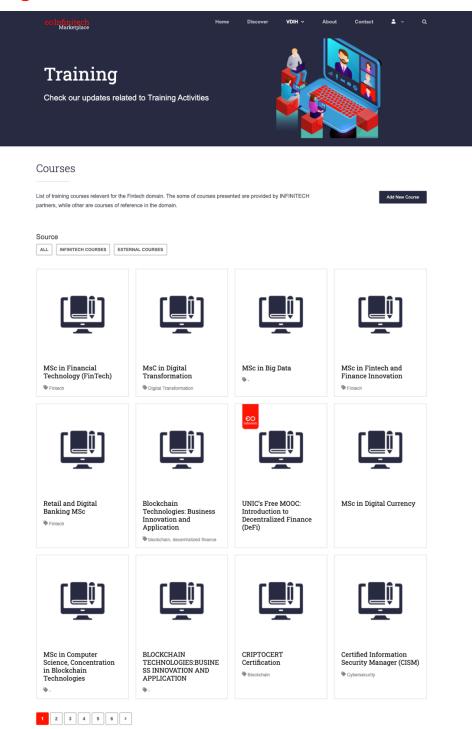


Figure 11: Courses Page

## Workshops Page

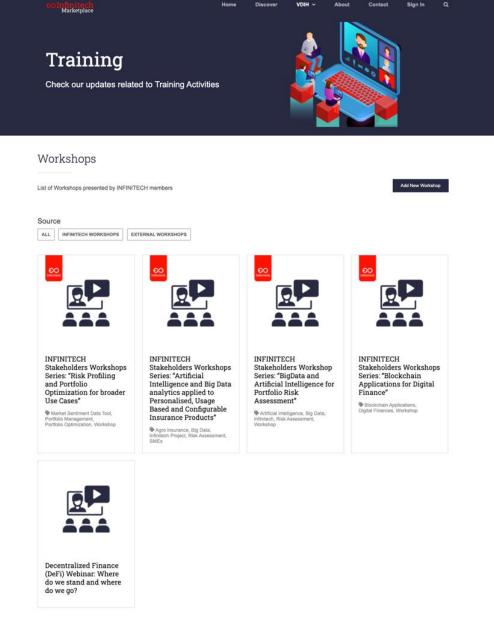


Figure 12: Workshops Page

## Webinars Page

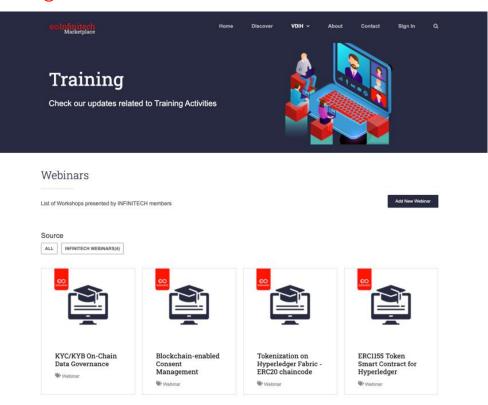


Figure 13: Webinars Page

## Accelerator Programmes Page

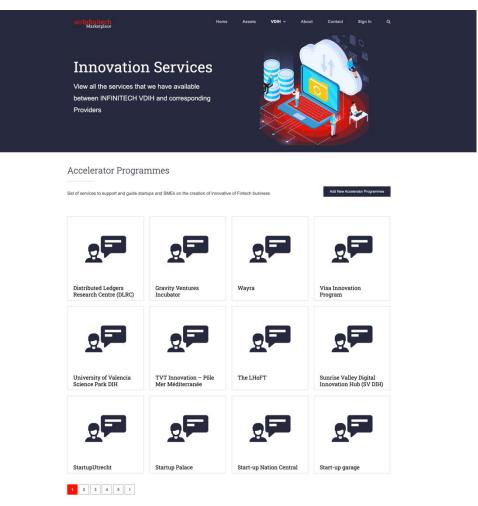


Figure 14: Accelerator Programmes Page

# Appendix B - Marketplace Forms

The section contains all the forms available on the INFINITECH Marketplace:

- Assets
- Courses
- Workshops
- Webinars
- Accelerator Programmes

#### **Assets Form**

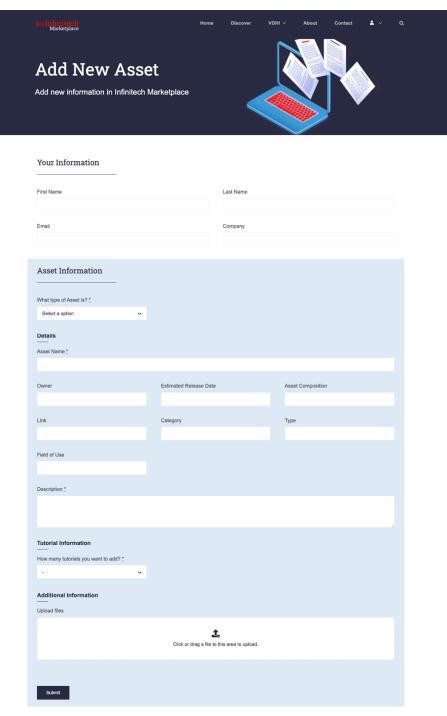


Figure 15: Assets Form

## **Courses Form**

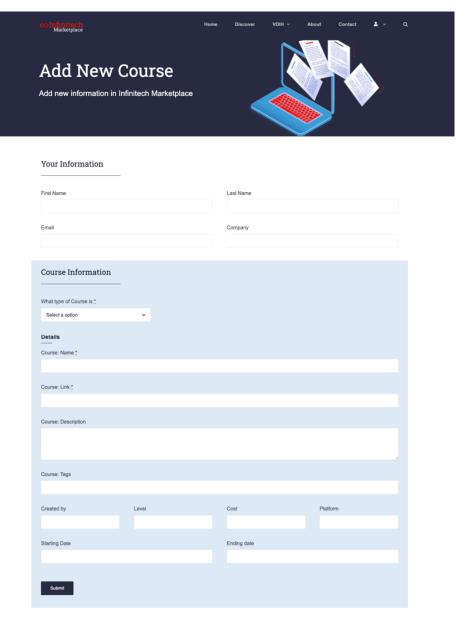


Figure 16: Course Form

## Workshops Form

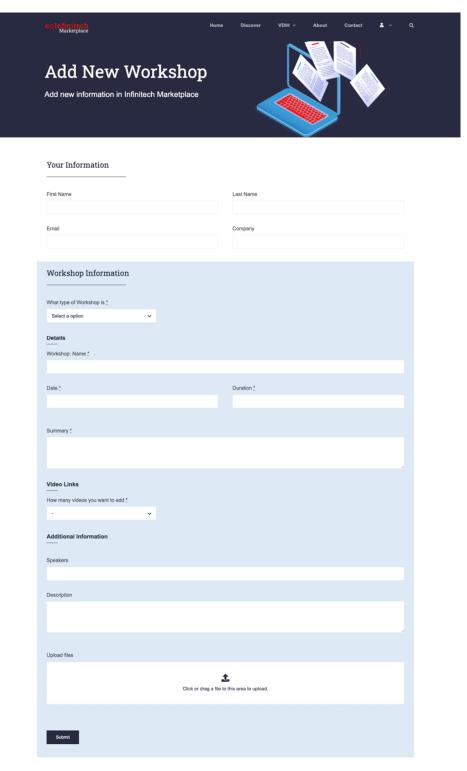


Figure 17: Workshop Form

## Webinars Form

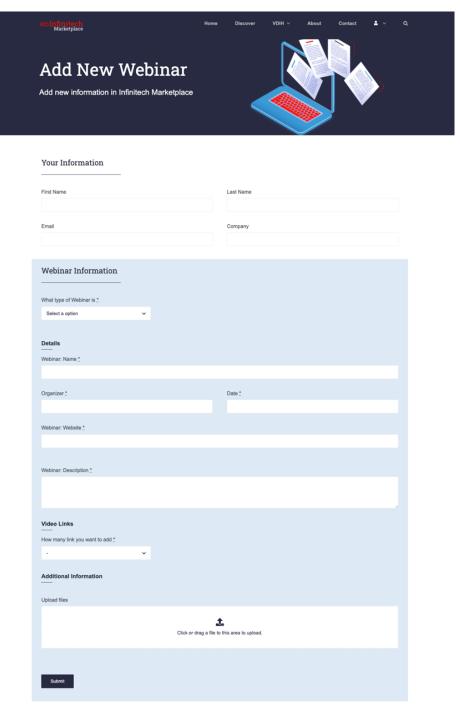


Figure 18: Webinar Form

## **Accelerator Programmes Form**

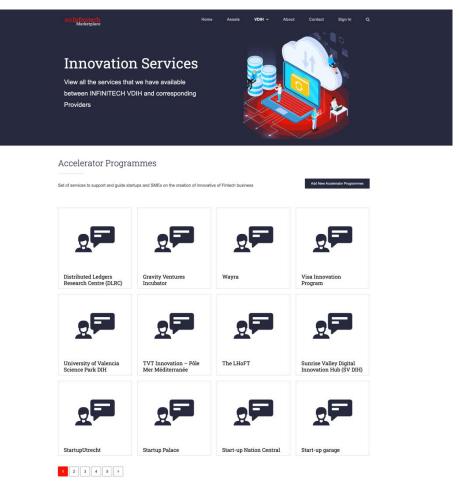


Figure 19: Accelerator Programmes Form