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**Group REPORT**

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# Foreword

This Group Report (GR) has been produced by ETSI Industry Specification Group Permissioned Distributed Ledger (PDL).

# Modal verbs terminology

In the present document "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](https://portal.etsi.org/Services/editHelp%21/Howtostart/ETSIDraftingRules.aspx) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

# Executive summary

# Introduction

# 1 Scope

This document will show the current research and innovation programmes related to permissioned distributed ledgers, distributed digital ledger technologies and blockchain with the goal of identifying advanced technologies and innovative research results relevant or essential to PDL standardisation.

# 2 References

## 2.1 Normative references

Normative references are not applicable in the present document.

## 2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non‑specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1] ETSI GR PDL001 V1.1.1/(2020-03): "Permissioned Distributed Ledger (PDL); Landscape of Standards and Technologies".

[i.2] European Commission CORDIS: "CORDIS: Projects and Results".

NOTE 1: Available at https://cordis.europa.eu/projects/en

[i.3] ETSI Research and Standards Website /(2020-06-15): "Research and Standards".

NOTE 1: Available at <https://www.etsi.org/research>

[i.4] European Commission Horizon 2020 Work Programme /(2020-06-17): "EN Horizon 2020 Work Programme 2018-2020, 5.i. Information and Communication Technologies".

NOTE 1: Available at <https://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-leit-ict_en.pdf>

# 3 Definition of terms, symbols and abbreviations

## 3.1 Terms

For the purposes of the present document, the [following] terms [given in ... and the following] apply:

## 3.2 Symbols

For the purposes of the present document, the [following] symbols [given in ... and the following] apply:

## 3.3 Abbreviations

For the purposes of the present document, the [following] abbreviations [given in ... and the following] apply:

AI Artificial Intelligence

BBI-CSA Bio-Based Industries - Coordination and Support Action

CORDIS Community Research and Development Information Service

CSA Coordination and Support Action

DLT Distributed Ledger Technology

ETSI European Telecommunications Standards Institute

EU European Union

H2020 Horizon 2020

IA Innovation Action

ICT Information and Communication Technology

IMI2-RIA Innovative Medicines Initiative 2 - Research and Innovation Action

IoT Internet of Things

IP Intellectual Property

NGI Next Generation Internet

PDL Permissioned Distributed Ledger

RIA Research and Innovation Action

SESAR-RIA Single European Sky ATM Research - Research and Innovation Action

SGA-CSA Specific Grant Agreement - Coordination and Support Action

SME Small- and Medium-sized Enterprise

SME-1 Small- and Medium-sized Enterprise Instrument Phase 1

SME-2 Small- and Medium-sized Enterprise Instrument Phase 2

# 4 PDL Research and Innovation Landscape

## 4.1 Introduction

This document will show the current research and innovation programmes related to permissioned distributed ledgers, distributed digital ledger technologies and blockchain with the goal of identifying advanced technologies and innovative research results relevant or essential to PDL standardisation. Without limitation to other research and innovation initiatives this document will focus on PDL research and innovation activities funded under the European Union’s Research and Innovation Framework Programme Horizon 2020.

## 4.2 Related Documents and Information Sources

This document relates to the Permisioned Distributed Ledger (PDL) Landscape of Standards and Technologies Annex B: List of EU funded Horizon 2020 Research and Innovation Projects on Blockchain and/or Distributed Ledger ([i.1] pages 18-25).

For the identification of Horizon 2020 Research Projects related to blockchain and DLT the Community Research and Development Information Service (CORDIS)[i.2] has been used. CORDIS serves as the European Commisson’s primary source of information on results from projects funded under the European Research Framework Programmes. CORDIS itself is governed and funded as part of the EU Horizon 2020 research framework programme.

The CORDIS public repository with Horizon 2020 project information held by the European Commission provides search functionalities that have been used to identify projects that have blockchain or distributed ledger technologies in any of their objectives, work program, deliverables, results or publications mentioned.

# 5 European Research and Innovation Programmes

## 5.1 Overview

//short introduction on European Research Landscape and Programmes//

### 5.1.2 Horizon 2020

// short introduction, funding and programme pillars, etc.//

### 5.1.3 Horizon Europe

// short introduction, funding and programme pillars, etc.//

### 5.1.4 Other Research Programmes

// short introduction//

## 5.2 Research and Standardisation

### 5.2.1 Research and Innovation in ETSI

//ETSI Research Strategy, ETSI Research and Standards Website [i.3], ETSI and EU Funded Research Programmes, etc. //

# 6 PDL related Research and Innovation Activities

## 6.1 Horizon 2020 Projects related to DLT and Blockchain

// Summary, analysis of project table e.g. figures on funding, # of CSA, IA, RIA, SME-1, SME-2 , etc. //

## 6.2 Research and Innovation Programmes related to PDL

// Horizon 2020 Work Programme 2018-2020, Information and Communication Technologies [i.4], etc. analysis by programme, topic, objectices, results, application domain, etc. //

# 7 Future Directions for PDL Standardisation

// further collaborations (e.g. PDL PoCs, other Initiatives, Workshops etc.)//

# 8 Summary

Annex A:
List of EU Horizon 2020 Projects related to DLT and Blockchain

Information about EU funded research and innovation projects under the Horizon 2020 research framework programme that are related to blockchain and/or distributed ledger technologies as obtained from CORDIS project database has been collected by ISG PDL and a list of all Horizon 2020 projects on DLT and blockchain under the funding schemes RIA, IA, CSA, as well as SME has been extracted. This list of Horizon 2020 projects related to DLT and blockchain contains for each project the following information: project acronym, project name, project ID, project funding scheme, a link to the projects factsheet in CORDIS and an indication of the projects potential application domain or field of research as specified by ISG PDL. The project list is sorted in alphabetical order by the project acronym as presented in table A.1.

NOTE 1: The latest status update of the project information from CORDIS database is first of September 2020.

NOTE 2: The classification of the projects Application Domain and Field of Research is based on a ISG PDL assessment and therefore might differ from the actual projects application domain or field of research.

NOTE 3: No guarantee can be given for the completeness, correctness and topicality of the information and contents compiled here.

Table A.1: EU Horizon 2020 Projects related to DLT and Blockchain as of September 2020

| **Horizon 2020 Project Acronym** | **Horizon 2020Project Name** | **Horizon 2020Project ID** | **Horizon 2020Funding Scheme** | **CORDIS****Project** **Factsheet** | **ISG PDL classification of Application Domain, Field of Research** |
| --- | --- | --- | --- | --- | --- |
| 5G-DIVE | eDge Intelligence for Vertical Experimentation  | 859881 | RIA | <https://cordis.europa.eu/project/id/859881> | 5G |
| 5G-TRANSFORMER | 5G-TRANSFORMER: 5G Mobile Transport Platform for Verticals | 761536 | RIA | <https://cordis.europa.eu/project/id/761536> | 5G |
| Access2Europe | Help startups to scale by leveraging the access to European markets offered by four major startup hubs | 780237 | IA | <https://cordis.europa.eu/project/id/780237> | Digital Economy |
| AEGIS | Advanced Big Data Value Chain for Public Safety and Personal Security | 732189 | IA | <https://cordis.europa.eu/project/id/732189> | Big Data |
| AEOLIX | Architecture for EurOpean Logistics Information eXchange | 690797 | RIA | <https://cordis.europa.eu/project/id/690797> | Digital Economy |
| AIC24 | Sustainable Datacenters Through Immersed Computing | 816831 | SME-1 | <https://cordis.europa.eu/project/id/816831> | Circular Economy |
| AICHAIN | A platform for privacy-preserving Federated Machine Learning using Blockchain to enable Operational Improvements in ATM | 894162 | SESAR-RIA | <https://cordis.europa.eu/project/id/894162> | Digital Information Management |
| AMable | AdditiveManufacturABLE | 768775 | IA | <https://cordis.europa.eu/project/id/768775> | Manufacturing |
| AMBRPAY | Decentralized subscription payments with cryptocurrency | 887968 | SME-1 | <https://cordis.europa.eu/project/id/887968> | Digital Economy |
| ANITA | Advanced tools for fighting oNline llegal TrAfficking | 787061 | RIA | <https://cordis.europa.eu/project/id/787061> | CyberSecurity |
| ARCAone | Next generation security platform to safeguard critical applications and sensitive digital assets | 888406 | SME-1 | <https://cordis.europa.eu/project/id/888406> | CyberSecurity |
| ARTICONF | smART socIal media eCOsytstem in a blockchaiN Federated environment | 825134 | RIA | <https://cordis.europa.eu/project/id/825134> | Media |
| AudioCommons | Audio Commons: An Ecosystem for Creative Reuse of Audio Content | 688382 | RIA | <https://cordis.europa.eu/project/id/688382> | Media |
| AVANGARD | Advanced manufacturing solutions tightly aligned with business needs | 869986 | IA | <https://cordis.europa.eu/project/id/869986> | Manufacturing |
| B4CM | Blockchains as a Distributed Ledger for Attribution of RCM Data in Rail  | 826156 | CSA | <https://cordis.europa.eu/project/id/826156> | Mobility |
| B4TDM | Making Contracts Digital with Civilised Blockchain | 858630 | SME-2 | <https://cordis.europa.eu/project/id/858630> | Digital Economy |
| BD4OPEM | Big Data for OPen innovation Energy Marketplace | 872525 | IA | <https://cordis.europa.eu/project/id/872525> | Smart Grid |
| BEACON | Boosting Agricultural Insurance based on Earth Observation data | 821964 | IA | <https://cordis.europa.eu/project/id/821964> | Space Data |
| B-HUB FOR EUROPE | Blockchain HUB FOR EUROPEan startups acceleration and growth | 871869 | IA | <https://cordis.europa.eu/project/id/871869> | Digital Economy |
| BIG | Enhancing the research and innovation potential of Tecnico through Blockchain technologies and design Innovation for social Good | 952226 | CSA | <https://cordis.europa.eu/project/id/952226> | Digital Society |
| BILLON | Disrupting the economy - FinTech blockchain solution revolutionises direct payments. Secure, low-cost and simple bank-free payments for everyone | 783861 | SME-2 | <https://cordis.europa.eu/project/id/783861> | FinTech |
| BitBox | Enterprise - Enterprise-grade Solution for Digital Assets Custody | 855049 | SME-1 | <https://cordis.europa.eu/project/id/855049> | CyberSecurity |
| Bitwala | Next generation banking tools for the blockchain economy | 854346 | SME-1 | <https://cordis.europa.eu/project/id/854346> | FinTech |
| Bitztribution | Towards a fully decentralized distribution for next generation of travel and tourism distribution | 876748 | SME-1 | <https://cordis.europa.eu/project/id/876748> | Digital Economy |
| Block.IS | Blockchain Innovation Spaces | 824509 | IA | <https://cordis.europa.eu/project/id/824509> | Circular Economy |
| BlockchainKYC | Blockchain-based, 100% automated KYC (Know Your Customer) service | 774802 | SME-1 | <https://cordis.europa.eu/project/id/774802> | Secure Societies |
| BlockchainKYC | Blockchain-based, 100% automated KYC (Know Your Customer) service | 850059 | SME-2 | <https://cordis.europa.eu/project/id/850059> | Secure Societies |
| BLOCKCHERS | BLOCKCHAIN TECHNOLOGIES FOR SMEs  | 828840 | CSA | <https://cordis.europa.eu/project/id/828840> | Big Data |
| Blocknetwork | Fusing Big Data and Implementing Novel Cyber Security Solutions | 827457 | SME-1 | <https://cordis.europa.eu/project/id/827457> | Big Data |
| BLOCKPOOL | Pooling SME adoption and deployment of Blockchain and other DLTs  | 828888 | CSA | <https://cordis.europa.eu/project/id/828888> | Education |
| BlockStart | Helping SMEs take the first steps into the Blockchain  | 828853 | CSA | <https://cordis.europa.eu/project/id/828853> | Education |
| BLOOMEN | Blockchains in the new era of participatory media experience | 762091 | IA | <https://cordis.europa.eu/project/id/762091> | Media |
| BodyPass | API-ecosystem for cross-sectorial exchange of 3D personal data | 779780 | IA | <https://cordis.europa.eu/project/id/779780> | Healthcare |
| BOOST 4.0 | Big Data Value Spaces for COmpetitiveness of European COnnected Smart FacTories 4.0 | 780732 | IA | <https://cordis.europa.eu/project/id/780732> | Big Data |
| BRAIN-IoT | model-Based fRamework for dependable sensing and Actuation in INtelligent decentralized IoT systems | 780089 | RIA | <https://cordis.europa.eu/project/id/780089> | IoT |
| BrainPatch | BrainPatch – Breakthrough noninvasive brain stimulation using AI | 867386 | SME-1 | <https://cordis.europa.eu/project/id/867386> | Healthcare |
| C4IIoT | Cyber security 4.0: protecting the Industrial Internet Of Things | 833828 | IA | <https://cordis.europa.eu/project/id/833828> | CyberSecurity |
| CATALYST | Converting DCs in Energy Flexibility Ecosystems (CATALYST) | 768739 | IA | <https://cordis.europa.eu/project/id/768739> | Circular Economy |
| CATTLECHAIN 4.0 | Enhancing farm productivity and guaranteeing CATTLE traceability and welfare with blockCHAIN | 853864 | IA | <https://cordis.europa.eu/project/id/853864> | IoT |
| Ceres | Proactive system to forecast and reduce environmental footprint while maximising agriculture performance | 832681 | SME-1 | <https://cordis.europa.eu/project/id/832681> | Food Quality/Fraud |
| CHARIOT | Cognitive Heterogeneous Architecture for Industrial IoT | 780075 | RIA | <https://cordis.europa.eu/project/id/780075> | IoT |
| ChemChain | Blockchain Platform to Track Chemicals along the Value Chain | 875783 | SME-1 | <https://cordis.europa.eu/project/id/875783> | Circular Economy |
| CITADEL | Empowering Citizens to TrAnsform European PubLic Administrations | 726755 | RIA | <https://cordis.europa.eu/project/id/726755> | Digital Society |
| ClearFarm | Co-designed Welfare Monitoring Platform for Pig and Dairy Cattle | 862919 | IA | <https://cordis.europa.eu/project/id/862919> | Digital Economy |
| CLINICOVERY | CLINICOVERY, a versatile, high quality, environmental-friendly, easy to use e-Clinical solution for clinical research | 808543 | SME-1 | <https://cordis.europa.eu/project/id/808543> | Healthcare |
| CO3 | Digital Disruptive Technologies to Cocreate, Co-produce and Co-manage Open Public Services along with Citizens | 822615 | RIA | <https://cordis.europa.eu/project/id/822615> | Digital Society |
| COBAFRA | Combatting Banking Fraud with SiSid: A unique solution for preventing corporate payments fraud using AI and blockchain | 835813 | SME-1 | <https://cordis.europa.eu/project/id/835813> | Digital Economy |
| COG-LO | COGnitive Logistics Operations through secure, dynamic and ad-hoc collaborative networks | 769141 | RIA | <https://cordis.europa.eu/project/id/769141> | IoT |
| COLLABS | A COmprehensive cyber-intelligence framework for resilient coLLABorative manufacturing Systems | 871518 | RIA | <https://cordis.europa.eu/project/id/871518> | Manufacturing |
| COMPOSITION | Ecosystem for Collaborative Manufacturing Processes – Intra- and Interfactory Integration and Automation | 723145 | RIA | <https://cordis.europa.eu/project/id/723145> | Manufacturing |
| CONNECARE | Personalised Connected Care for Complex Chronic Patients | 689802 | RIA | <https://cordis.europa.eu/project/id/689802> | Healthcare |
| Consentio | Boosting conversations to disrupt horticulture trading | 836175 | SME-1 | <https://cordis.europa.eu/project/id/836175> | Digital Economy |
| COOL-SENS | Advanced monitoring solution to prevent losses and assure full transparency along the cold chain | 855554 | SME-1 | <https://cordis.europa.eu/project/id/855554> | IoT |
| CoordiNet | Large scale campaigns to demonstrate how TSO-DSO shall act in a coordinated manner to procure grid services in the most reliable and efficient way | 824414 | IA | <https://cordis.europa.eu/project/id/824414> | Smart Grid |
| COPA EUROPE | COllaborative Platform for trAnsmedia storytelling and cross channel distribution of EUROPEan sport events | 957059 | IA | <https://cordis.europa.eu/project/id/957059> | Media |
| CREST | Fighting Crime and TerroRism with an IoT-enabled Autonomous Platform based on an Ecosystem of Advanced IntelligEnce, Operations, and InveStigation Technologies | 833464 | RIA | <https://cordis.europa.eu/project/id/833464> | Secure Societies |
| CRITICAL-CHAINS | IOT- & Blockchain-Enabled Security Framework for New Generation Critical Cyber-Physical Systems In Finance Sector | 833326 | IA | <https://cordis.europa.eu/project/id/833326> | CyberSecurity |
| CUREX | seCUre and pRivate hEalth data eXchange | 826404 | RIA | <https://cordis.europa.eu/project/id/826404> | Healthcare |
| CyberKit4SME | Democratizing a Cyber Security Toolkit for SMEs and MEs | 883188 | IA | <https://cordis.europa.eu/project/id/883188> | CyberSecurity |
| CyberSec4Europe | Cyber Security Network of Competence Centres for Europe | 830929 | RIA | <https://cordis.europa.eu/project/id/830929> | CyberSecurity |
| CYBER-TRUST | Advanced Cyber-Threat Intelligence, Detection, and Mitigation Platform for a Trusted Internet of Things | 786698 | RIA | <https://cordis.europa.eu/project/id/786698> | CyberSecurity |
| cyberwatching,eu  | The European watch on cybersecurity privacy | 740129 | CSA | <https://cordis.europa.eu/project/id/740129> | CyberSecurity |
| D4FLY | Detecting Document frauD and iDentity on the fly | 833704 | RIA | <https://cordis.europa.eu/project/id/833704> | Secure Societies |
| Dawex GDM | Dawex Data Marketplace deployment: unlocking European companies’ data value | 829729 | SME-2 | <https://cordis.europa.eu/project/id/829729> | Digital Economy |
| DE4A | Digital Europe for All | 870635 | RIA | <https://cordis.europa.eu/project/id/870635> | Digital Society |
| DECENTER | Decentralised technologies for orchestrated cloud-to-edge intelligence | 815141 | RIA | <https://cordis.europa.eu/project/id/815141> | Cloud/IoT/AI |
| DECODE | Decentralised Citizens Owned Data Ecosystem | 732546 | RIA | <https://cordis.europa.eu/project/id/732546> | IoT |
| DEFENDER | Defending the European Energy Infrastructures | 740898 | IA | <https://cordis.europa.eu/project/id/740898> | CyberSecurity |
| DEL4ALL | Digital Enhanced Learning for ALL | 871573 | CSA | <https://cordis.europa.eu/project/id/871573> | NGI |
| DELTA | Future tamper-proof Demand rEsponse framework through seLfconfigured, self-opTimized and collAborative virtual distributed energy nodes | 773960 | RIA | <https://cordis.europa.eu/project/id/773960> | Smart Grid |
| DFS | Democratized Financial Services | 865430 | SME-1 | <https://cordis.europa.eu/project/id/865430> | FinTech |
| DiFacturo | The Unique International Independent Decentralized Invoice Network | 889930 | SME-1 | <https://cordis.europa.eu/project/id/889930> | Digital Economy |
| DigiPharm | Value-based Healthcare Platform Secured with Blockchain Technology | 888950 | SME-1 | <https://cordis.europa.eu/project/id/888950> | Healthcare |
| DiTECT | DIgital TEChnologies as an enabler for a conTinuous transformation of food safety system | 861915 | RIA | <https://cordis.europa.eu/project/id/861915> | Food Quality/Fraud |
| DLInnociate | DLInnociate Innovation Associate knowledgeable in blockchain technologyfor real time economy platform business development | 739782 | CSA | <https://cordis.europa.eu/project/id/739782> | Digital Economy |
| DNAFoil | Rapid DNA screening to secure the global food supply chains | 836046 | SME-1 | <https://cordis.europa.eu/project/id/836046> | Food Quality/Fraud |
| DOMINOES | Smart Distribution Grid: a Market Driven Approach for the Next Generation of Advanced Operation Models and Services | 771066 | RIA | <https://cordis.europa.eu/project/id/771066> | Smart Grid |
| DrBox | eHealth platform to assess patient clinical progress due to prescribed medication | 807509 | SME-1 | <https://cordis.europa.eu/project/id/807509> | Healthcare |
| DRIVE | Demand Response Integration tEchnologies: unlocking the demand response potential in the distribution grid | 774431 | RIA | <https://cordis.europa.eu/project/id/774431> | Smart Grid |
| DSISCALE | Supporting the scale and growth of Digital Social Innovation in Europe through coordination of Europe’s DSI and CAPS Networks | 780473 | CSA | <https://cordis.europa.eu/project/id/780473> | Digital Society |
| EBSIS | Event Based Systems in Iaşi - A Twinning between Universitatea Alexandru Ioan Cuza din Iaşi, Université de Neuchâtel and Technische Universität Dresden | 692178 | CSA | <https://cordis.europa.eu/project/id/692178> | Big Data |
| eDREAM | enabling new Demand REsponse Advanced, Market oriented and Secure technologies, solutions and business models | 774478 | RIA | <https://cordis.europa.eu/project/id/774478> | Smart Grid |
| EENVEST | Risk reduction for Building Energy Efficiency investments | 833112 | CSA | <https://cordis.europa.eu/project/id/833112> | Circular Economy |
| EKOFOLIO | Expanding Key Opportunities in FOrest Investments: Liquidity, Impact and Ownership through Blockchain | 876676 | SME-1 | <https://cordis.europa.eu/project/id/876676> | Circular Economy |
| ENHANCE | Building an Excellency Network for Heightening Agricultural ecoNomic researCh and Education in Romania | 691681 | CSA | <https://cordis.europa.eu/project/id/691681> | Education |
| ENIT Agent 2.0 | The world's first edge computing solution for SMEs enabling energy efficiency, Industry 4.0 and new business models for the energy sector | 811640 | SME-2 | <https://cordis.europa.eu/project/id/811640> | Smart Grid |
| ePIcenter | Enhanced Physical InternetCompatible Earth-frieNdly freight Transportation answER | 861584 | RIA | <https://cordis.europa.eu/project/id/861584> | Cloud/IoT/AI |
| euCANSHare | An EU-Canada joint infrastructure for next-generation multi-Study Heart research | 825903 | RIA | <https://cordis.europa.eu/project/id/825903> | Healthcare |
| EU-China-Safe | Delivering an Effective, Resilient and Sustainable EU-China Food Safety Partnership | 727864 | RIA | <https://cordis.europa.eu/project/id/727864> | Food Quality/Fraud |
| EUNOMIA | User-oriented, secure, trustful & decentralised social media | 825171 | IA | <https://cordis.europa.eu/project/id/825171> | Media |
| European IPR Helpdesk | The European IPR Helpdesk | 641474 | CSA | <https://cordis.europa.eu/project/id/641474> | IP Rights and Assets |
| EVEARA | EVEARA: Testing a New Business Model for Digital Music Distribution | 735359 | SME-1 | <https://cordis.europa.eu/project/id/735359> | Digital Economy |
| EyeCode | A frictionless two-factor authentication software for secure transactions | 816804 | SME-1 | <https://cordis.europa.eu/project/id/816804> | CyberSecurity |
| FAR-EDGE | Factory Automation Edge Computing Operating System Reference Implementation | 723094 | RIA | <https://cordis.europa.eu/project/id/723094> | Manufacturing |
| FeatureCloud | Privacy preserving federated machine learning and blockchaining for reduced cyber risks in a world of distributed healthcare | 826078 | RIA | <https://cordis.europa.eu/project/id/826078> | Healthcare |
| FENTEC | Functional Encryption Technologies | 780108 | RIA | <https://cordis.europa.eu/project/id/780108> | CyberSecurity |
| FINSEC | Integrated Framework for Predictive and Collaborative Security of Financial Infrastructures | 786727 | IA | <https://cordis.europa.eu/project/id/786727> | CyberSecurity |
| FIN-TECH | A FINancial supervision and TECHnology compliance training programme | 825215 | CSA | <https://cordis.europa.eu/project/id/825215> | FinTech |
| FLEXI-GRID | ENABLING FLEXIBILITY FOR FUTURE DISTRIBUTION GRID | 864048 | IA | <https://cordis.europa.eu/project/id/864048> | Smart Grid |
| FleXunity | Scaling-up Power Flexible Communities business models empowered by Blockchain and AI | 870146 | IA | <https://cordis.europa.eu/project/id/870146> | Digital Economy |
| FOrLedger | A Blockchain-based Middleware Platform for Food Tracking Ledger Builder | 856065 | SME-1 | <https://cordis.europa.eu/project/id/856065> | Digital Economy |
| GASTEJO | Decentralized Travel Apartment Distribution Platform | 832537 | SME-1 | <https://cordis.europa.eu/project/id/832537> | Digital Economy |
| GDC | A Genetic Data CUBE - An innovative business model applied to predictive and prescriptive analytics, exploring Big Data an empowering cloudservices and urgent computation | 697581 | SME-1 | <https://cordis.europa.eu/project/id/697581> | Big Data |
| GET | Green Energy Tracker. The international tracking system for guarantees of origin, green energy certificates and green labels | 775225 | SME-1 | <https://cordis.europa.eu/project/id/775225> | Circular Economy |
| GHOST | Safe-Guarding Home IoT Environments with Personalised Realtime Risk Control | 740923 | IA | <https://cordis.europa.eu/project/id/740923> | CyberSecurity |
| GOIN | Development of a fintech saving and investment application based on datadriven learning algorithms and blockchain technology | 889276 | SME-1 | <https://cordis.europa.eu/project/id/889276> | FinTech |
| GRECA | GRECA: Revolution in corporate transactions | 888213 | SME-1 | <https://cordis.europa.eu/project/id/888213> | Digital Economy |
| HMCS | Handheld Molecular Contaminant Screener | 854670 | SME-1 | <https://cordis.europa.eu/project/id/854670> | Food Quality/Fraud |
| HUB4NGI | A Collaborative Platform to Unlock the Value of Next Generation Internet Experimentation | 732569 | CSA | <https://cordis.europa.eu/project/id/732569> | NGI |
| Human City Platform | A Human City Platform for town and city councils to foster citizen engagement | 711389 | SME-2 | <https://cordis.europa.eu/project/id/711389> | Smart City |
| I Go Slow | BLOCKCHAIN BASED PLATFORM FOR BRINGING SLOW FOOD IDEAS AND FAMILY OWNED FARMING TO CYBERSPACE | 868842 | SME-1 | <https://cordis.europa.eu/project/id/868842> | Digital Economy |
| ICARUS | Aviation-driven Data Value Chain for Diversified Global and Local Operations | 780792 | IA | <https://cordis.europa.eu/project/id/780792> | Big Data |
| ICONET | New ICT infrastructure and reference architecture to support Operations in future PI Logistics NETworks | 769119 | RIA | <https://cordis.europa.eu/project/id/769119> | IoT |
| ICT-BIOCHAIN | ICT Tools in Efficient Biomass Supply Chains for Sustainable Chemical Production | 792221 | BBI-CSA | <https://cordis.europa.eu/project/id/792221> | IoT |
| ID Ward | ID Ward: blockchain-based universal ID for privacy-preserving personalisation | 887317 | SME-1 | <https://cordis.europa.eu/project/id/887317> | Digital Society |
| I-Media-Cities | Innovative e-environment for Research on Cities and the Media | 693559 | IA | <https://cordis.europa.eu/project/id/693559> | Media |
| IN2DREAMS  | INtelligent solutions 2ward the Development of Railway Energy and Asset Management Systems in Europe | 777596 | Shift2Rail-RIA | <https://cordis.europa.eu/project/id/777596> | Cloud/IoT/AI |
| INFINITECH | Tailored IoT & BigData Sandboxes and Testbeds for Smart, Autonomous and Personalized Services in the European Finance and Insurance Services Ecosystem | 856632 | IA | <https://cordis.europa.eu/project/id/856632> | Big Data |
| INSPECTO | INSPECTO: A disruptive portable device with an innovative Method for Pesticides and contaminants Detection in Food | 808038 | SME-1 | <https://cordis.europa.eu/project/id/808038> | Digital Economy |
| INSPECTr | Intelligence Network and Secure Platform for Evidence Correlation and Transfer (INSPECTr) | 833276 | RIA | <https://cordis.europa.eu/project/id/833276> | Secure Societies |
| INSPIRE-5Gplus | INtelligent Security and PervasIve tRust for 5G and Beyond | 871808 | RIA | <https://cordis.europa.eu/project/id/871808> | 5G |
| INTERFACE | TSO-DSO-Consumer INTERFACE aRchitecture to provide innovative grid services for an efficient power system | 824330 | IA | <https://cordis.europa.eu/project/id/824330> | Smart Grid |
| INTERLACE | Interacting Decentralized Transactional and Ledger Architecture for Mutual Credit | 754494 | CSA | <https://cordis.europa.eu/project/id/754494> | FinTech |
| IoTCrawler | IoTCrawler | 779852 | RIA | <https://cordis.europa.eu/project/id/779852> | IoT |
| iReceptor Plus  | ARCHITECTURE AND TOOLS FOR THE QUERY OF ANTIBODY AND T-CELL RECEPTOR SEQUENCING DATA REPOSITORIES FOR ENABLING IMPROVED PERSONALIZED MEDICINE AND IMMUNOTHERAPY | 825821 | RIA | <https://cordis.europa.eu/project/id/825821> | Healthcare |
| JUMP2Excel | Joint Universal activities for Mediterranean PV integration Excellence | 810809 | CSA | <https://cordis.europa.eu/project/id/810809> | Smart Grid |
| KONFIDO | Secure and Trusted Paradigm for Interoperable eHealth Services | 727528 | RIA | <https://cordis.europa.eu/project/id/727528> | Healthcare |
| KRAKEN | Brokerage and market platform for personal data | 871473 | IA | <https://cordis.europa.eu/project/id/871473> | Digital Information Management |
| LEDGER | decentraLizEd Data Governance for nExt geneRation internet  | 825268 | RIA | <https://cordis.europa.eu/project/id/825268> | NGI |
| LOCARD | Lawful evidence collecting and continuity platform development | 832735 | RIA | <https://cordis.europa.eu/project/id/832735> | Secure Societies |
| LPS | For a full data privacy on the go. | 886716 | SME-1 | <https://cordis.europa.eu/project/id/886716> | CyberSecurity |
| MANTIS | Cyber Physical System based Proactive Collaborative Maintenance | 662189 | RIA | <https://cordis.europa.eu/project/id/662189> | CyberSecurity |
| MANU-SQUARE | MANUfacturing ecoSystem of QUAlified Resources Exchange | 761145 | RIA | <https://cordis.europa.eu/project/id/761145> | Manufacturing |
| MARCO | Modern framework for Blockchain applications of corporate use | 832468 | SME-1 | <https://cordis.europa.eu/project/id/832468> | Digital Economy |
| MARKET4.0 | A Multi-Sided Business Platform for Plug and Produce Industrial Product Service Systems | 822064 | IA | <https://cordis.europa.eu/project/id/822064> | Manufacturing |
| MAtchUP | MAximizing the UPscaling and replication potential of high level urban transformation strategies | 774477 | IA | <https://cordis.europa.eu/project/id/774477> | Smart City |
| MediaRoad | MediaRoad – European Media Ecosystem for Innovation | 761412 | CSA | <https://cordis.europa.eu/project/id/761412> | Media |
| MediaVerse | A universe of media assets and cocreation opportunities at your fingertips | 957252 | IA | <https://cordis.europa.eu/project/id/957252> | Media |
| MERWIS | Melanoma Early Warning System | 878237 | SME-1 | <https://cordis.europa.eu/project/id/878237> | Healthcare |
| MH-MD | My Health - My Data | 732907 | RIA | <https://cordis.europa.eu/project/id/732907> | Healthcare |
| Minespider | Blockchain protocol for responsible mineral sourcing | 835775 | SME-1 | <https://cordis.europa.eu/project/id/835775> | Digital Economy |
| MINESPIDER | Blockchain Protocol for Responsible Mineral Sourcing | 946437 | SME-2b | <https://cordis.europa.eu/project/id/946437> | Digital Economy |
| M-Sec | Multi-layered Security technologies to ensure hyper connected smart cities with Blockchain, BigData, Cloud and IoT | 814917 | RIA | <https://cordis.europa.eu/project/id/814917> | Smart City |
| Navigato | CaaS – Car Charging as a Service for Smart Mobility | 886231 | SME-1 | <https://cordis.europa.eu/project/id/886231> | Mobility |
| NeMo | NeMo : Hyper-Network for electroMobility | 713794 | RIA | <https://cordis.europa.eu/project/id/713794> | Mobility |
| netCommons | network infrastructure as commons | 688768 | RIA | <https://cordis.europa.eu/project/id/688768> | Digital Society |
| NEWTRAL | First real-time fact-checking tool to fight against the fake news and disinformation | 855556 | SME-1 | <https://cordis.europa.eu/project/id/855556> | Media |
| NewTREND | New integrated methodology and Tools for Retrofit design towards a next generation of ENergy efficient and sustainable buildings and Districts | 680474 | IA | <https://cordis.europa.eu/project/id/680474> | Circular Economy |
| NEXTLEAP | NEXTLEAP | 688722 | RIA | <https://cordis.europa.eu/project/id/688722> | Secure Societies |
| NGI MOVE | Ecosystem building blocks for the Next Generation Internet movement | 780271 | CSA | <https://cordis.europa.eu/project/id/780271> | NGI |
| NGI\_TRUST | Partnership for innovative technological solutions to ensure privacy and enhance trust for the human-centric Internet | 825618 | RIA | <https://cordis.europa.eu/project/id/825618> | IoT |
| NGI0-Discovery | NGI Zero Discovery | 825322 | RIA | <https://cordis.europa.eu/project/id/825322> | NGI |
| NGI0-PET | NGI Zero - Privacy Enhancing Technologies | 825310 | RIA | <https://cordis.europa.eu/project/id/825310> | NGI |
| NGI-GO2S | NGI Research Goes To Standardisation | 957073 | RIA | <https://cordis.europa.eu/project/id/957073> | Sustainable Economy |
| Ngrave | The World’s Most Secure Cryptocurrency Safeguarding Solution | 882699 | SME-1 | <https://cordis.europa.eu/project/id/882699> | Digital Society |
| NRG-5 | Enabling Smart Energy as a Service via 5G Mobile Network advances (NRG-5) | 762013 | RIA | <https://cordis.europa.eu/project/id/762013> | 5G |
| OLYMPUS | Oblivious identitY Management for Private and User-friendly Services | 786725 | IA | <https://cordis.europa.eu/project/id/786725> | Digital Information Management |
| OntoChain | Trusted, traceable and transparent ontological knowledge on blockchain | 957338 | RIA | <https://cordis.europa.eu/project/id/957338> | Sustainable Economy |
| P2B | PEERS TO BLOCKCHAIN | 851033 | CSA | <https://cordis.europa.eu/project/id/851033> | Digital Society |
| PANACEA | Protection and privAcy of hospital and health iNfrastructures with smArt Cyber sEcurity and cyber threat toolkit for dAta and people | 826293 | RIA | <https://cordis.europa.eu/project/id/826293> | CyberSecurity |
| PANORAMIX | Privacy and Accountability in Networks via Optimized Randomized Mix-nets | 653497 | IA | <https://cordis.europa.eu/project/id/653497> | Secure Societies |
| PARITY | Pro-sumer AwaRe, Transactive Markets for Valorization of Distributed flexibilITY enabled by Smart Energy Contracts | 864319 | IA | <https://cordis.europa.eu/project/id/864319> | Smart Grid |
| PatientDataChain | Blockchain approach to disrupt patient-provider medical records data exchange | 886084 | SME-1 | <https://cordis.europa.eu/project/id/886084> | Healthcare |
| PCCE | Pricing carbon with a dedicated currency to empower economic agents | 817104 | SME-1 | <https://cordis.europa.eu/project/id/817104> | Circular Economy |
| PCHP | Complete and optimize the PeachPie compiler technology to be fully compatible with the PHP language in order to increase th performance of up to 80% of the internet. | 853706 | SME-1 | <https://cordis.europa.eu/project/id/853706> | ICT |
| PharmaLedger | PharmaLedger | 853992 | IMI2-RIA | <https://cordis.europa.eu/project/id/853992> | Healthcare |
| PHOENIX | Electrical Power System’s Shield against complex incidents and extensive cyber and privacy attacks | 832989 | IA | <https://cordis.europa.eu/project/id/832989> | CyberSecurity |
| Place to Plug | THE COLLABORATIVE BLOCKCHAIN BACKED PLATFORM BRINGING TOGETHER DISPERSE PUBLIC AND PRIVATE EV CHARGING POINT PROVIDERS AND DRIVERS | 868489 | SME-1 | <https://cordis.europa.eu/project/id/868489> | Smart Grid |
| PLANET | Progress towards Federated Logistics Through The Integration Of TEN-T into A Global Trade Network | 860274 | RIA | <https://cordis.europa.eu/project/id/860274> | Digital Economy |
| PlatOne | PLATform for Operation of distribution NEtworks | 864300 | IA | <https://cordis.europa.eu/project/id/864300> | Smart Grid |
| Pop-Machina | Collaborative production for the circular economy; a community approach | 821479 | IA | <https://cordis.europa.eu/project/id/821479> | Circular Economy |
| PoSeID-on | Protection and control of Secured Information by means of a privacy enhanced Dashboard | 786713 | IA | <https://cordis.europa.eu/project/id/786713> | CyberSecurity |
| Preemie | Personalised nutrition of low-birthweight infants | 879228 | SME-2 | <https://cordis.europa.eu/project/id/879228> | Healthcare |
| PRIViLEDGE | Privacy-Enhancing Cryptography in Distributed Ledgers  | 780477 | RIA | <https://cordis.europa.eu/project/id/780477> | CyberSecurity |
| Productive4.0 | Electronics and ICT as enabler for digital industry and optimized supply chain management covering the entire product lifecycle | 737459 | IA | <https://cordis.europa.eu/project/id/737459> | Digital Economy |
| PROTECTIVE | Proactive Risk Management through Improved Cyber Situational Awareness | 700071 | IA | <https://cordis.europa.eu/project/id/700071> | Secure Societies |
| ProtonSuite | The most secure collaboration suite in the world | 848554 | SME-2 | <https://cordis.europa.eu/project/id/848554> | Secure Societies |
| ProtonSuite | The world’s largest secure collaboration suite | 791727 | SME-1 | <https://cordis.europa.eu/project/id/791727> | Secure Societies |
| PROVENANCE | Providing Verification Assistance for New Content | 825227 | IA | <https://cordis.europa.eu/project/id/825227> | Media |
| PTwist | An open platform for plastics lifecycle awareness, monetization, and sustainable innovation | 780121 | IA | <https://cordis.europa.eu/project/id/780121> | Circular Economy |
| PUZZLE | Towards a Sophisticated SIEM Marketplace for Blockchain-based Threat Intelligence and Security-as-aService | 883540 | IA | <https://cordis.europa.eu/project/id/883540> | CyberSecurity |
| QualiChain | Decentralised Qualifications' Verification and Management for Learner Empowerment, Education Reengineering and Public Sector Transformation | 822404 | RIA | <https://cordis.europa.eu/project/id/822404> | Digital Society |
| QuardCard | Powered smart card with a biometric one time password system | 757096 | SME-2 | <https://cordis.europa.eu/project/id/757096> | Secure Societies |
| QuidProQuo | True digitalisation of all transactional administration in the trade value chain through smart legal contracts | 855945 | SME-1 | <https://cordis.europa.eu/project/id/855945> | Digital Economy |
| REFLOW | constRuctive mEtabolic processes For materiaL flOWs in urban and periurban environments across Europe | 820937 | IA | <https://cordis.europa.eu/project/id/820937> | Circular Economy |
| ResearchProof | An online digital logbook to protect and prove authorship, and to share scientific results | 782642 | SME-1 | <https://cordis.europa.eu/project/id/782642> | Digital Economy |
| RESISTO  | RESIlience enhancement and risk control platform for communication infraSTructure Operators | 786409 | IA | <https://cordis.europa.eu/project/id/786409> | CyberSecurity |
| RISE | Research Center on Interactive Media, Smart System and Emerging Technologies | 739578 | SGA-CSA | <https://cordis.europa.eu/project/id/739578> | Digital Society |
| Roksnet | e-Society Interconnections Software | 816731 | SME-1 | <https://cordis.europa.eu/project/id/816731> | Digital Economy |
| SafeLog | Safe human-robot interaction in logistic applications for highly flexible warehouses | 688117 | RIA | <https://cordis.europa.eu/project/id/688117> | Digital Economy |
| SAGRIS | Sentinels-based Agriculture Information Service Component | 782116 | SME-1 | <https://cordis.europa.eu/project/id/782116> | Space Data |
| SCOTT | Secure COnnected Trustable Things  | 737422 | IA | <https://cordis.europa.eu/project/id/737422> | 5G |
| SeafoodTrace | Intelligent Traceability Platform enabling full transparency in the Seafood supply chain | 816070 | SME-1 | <https://cordis.europa.eu/project/id/816070> | IoT |
| SecureCloud | Secure Big Data Processing in Untrusted Clouds | 690111 | RIA | <https://cordis.europa.eu/project/id/690111> | Cloud |
| SELIS | Towards a Shared European Logistics Intelligent Information Space | 690588 | RIA | <https://cordis.europa.eu/project/id/690588> | Digital Economy |
| SerIoT | Secure and Safe Internet of Things | 780139 | RIA | <https://cordis.europa.eu/project/id/780139> | IoT |
| SettleMint | The distributed Blockchain middleware that allows business worldwide to build business solutions with Blockchain technology | 849969 | SME-2 | <https://cordis.europa.eu/project/id/849969> | Digital Economy |
| SHAR-Q | Storage capacity sharing over virtual neighbourhoods of energy ecosystems | 731285 | RIA | <https://cordis.europa.eu/project/id/731285> | Smart Grid |
| SHOGANAI | World´s first real-time solution for controlling airplane operating costs | 806470 | SME-2 | <https://cordis.europa.eu/project/id/806470> | Digital Economy |
| Signa2.0  | Signaturit | 778550 | SME-2 | <https://cordis.europa.eu/project/id/778550> | Secure Societies |
| SIGNATURIT\_2016 | Signaturit - The smartest e-Signature solution to send and sign documents on the go | 735095 | SME-1 | <https://cordis.europa.eu/project/id/735095> | Secure Societies |
| SKIN | Short supply chain Knowledge and Innovation Network | 728055 | CSA | <https://cordis.europa.eu/project/id/728055> | Digital Economy |
| SlideWiki | Large-scale pilots for collaborative OpenCourseWare authoring, multiplatform delivery and Learning Analytics | 688095 | IA | <https://cordis.europa.eu/project/id/688095> | Education |
| SMark2.0 | our next level product authentication, anti-counterfeiting and track and trace system | 878178 | SME-1 | <https://cordis.europa.eu/project/id/878178> | Manufacturing |
| SmartCertificate | The trusted solution for issuing certified documents to the blockchain, checkable in just a click | 837292 | SME-1 | <https://cordis.europa.eu/project/id/837292> | Secure Societies |
| SmartCOOLBOX | Smart modular passive cool boxes for sustainable logistics | 827231 | SME-1 | <https://cordis.europa.eu/project/id/827231> | Secure Societies |
| SmartDegrees | First anti-fraud plataform for the registration and certification of diplomas and academic certificates based in blockchain | 887349 | SME-1 | <https://cordis.europa.eu/project/id/887349> | Education |
| Smart-Trust | Secure Mobile ID for Trusted Smart Borders | 778571 | SME-2 | <https://cordis.europa.eu/project/id/778571> | Secure Societies |
| SMASH | Smart Sharing | 738441 | SME-2 | <https://cordis.europa.eu/project/id/738441> | Mobility |
| Social Digital Lab  | Gamified and collaborative digital learning open-source platform with a blockchain-based system to facilitate crowdsourced learning and the implementation of personalized education strategies | 817456 | SME-1 | <https://cordis.europa.eu/project/id/817456> | Education |
| SocialTruth | Open Distributed Digital Content Verification for Hyper-connected Sociality | 825477 | IA | <https://cordis.europa.eu/project/id/825477> | Media |
| SocKETs | SOCIETAL ENGAGEMENT WITH KEY ENABLING TECHNOLOGIES | 958277 | CSA | <https://cordis.europa.eu/project/id/958277> | Digital Society |
| SOFIE | Secure Open Federation for Internet Everywhere  | 779984 | RIA | <https://cordis.europa.eu/project/id/779984> | IoT |
| Solar Bank | Virtual Energy Trading IT System to couple photovoltaic production and electric vehicles charging. | 815019 | SME-1 | <https://cordis.europa.eu/project/id/815019> | Digital Economy |
| SONNETS | SOcietal Needs aNalysis and Emerging Technologies in the public Sector | 692868 | CSA | <https://cordis.europa.eu/project/id/692868> | Digital Society |
| SOTER | cyberSecurity Optimization and Training for Enhanced Resilience in finance | 833923 | IA | <https://cordis.europa.eu/project/id/833923> | CyberSecurity |
| SpeakNGI.eu | Citizen-driven open consultation on Next Generation Internet | 780125 | CSA | <https://cordis.europa.eu/project/id/780125> | NGI |
| SpecEMS | Spectral Energy Management System for appliance-level analytics, control, and microgrid renewables trading. | 856213 | SME-1 | <https://cordis.europa.eu/project/id/856213> | Digital Economy |
| SPHINX | A Universal Cyber Security Toolkit for Health-Care Industry | 826183 | RIA | <https://cordis.europa.eu/project/id/826183> | CyberSecurity |
| Startup Lighthouse | Lighthouse: Lighting the way for European scale-ups | 780738 | IA | <https://cordis.europa.eu/project/id/780738> | Digital Economy |
| STMS | Smart Tyre Management System for Safer, Greener and More Economic Transport | 728922 | SME-1 | <https://cordis.europa.eu/project/id/728922> | Manufacturing |
| STOP-IT | Strategic, Tactical, Operational Protection of water Infrastructure against cyber-physical Threats | 740610 | IA | <https://cordis.europa.eu/project/id/740610> | CyberSecurity |
| STOPTHEFRAUDINOLIVEO | Fighting counterfeiting in Olive Oil with blockchain - a working product has arrived | 866703 | SME-1 | <https://cordis.europa.eu/project/id/866703> | Digital Economy |
| SUNFISH | SecUre iNFormation SHaring in federated heterogeneous private clouds | 644666 | RIA | <https://cordis.europa.eu/project/id/644666> | Cloud |
| SUPERCLOUD | USER-CENTRIC MANAGEMENT OF SECURITY AND DEPENDABILITY IN CLOUDS OF CLOUDS | 643964 | RIA | <https://cordis.europa.eu/project/id/643964> | Cloud |
| symbIoTe | Symbiosis of smart objects across IoT environments | 688156 | RIA | <https://cordis.europa.eu/project/id/688156> | IoT |
| Synx BIOS | Synx BIOS: The revolutionary webBIOS that fully enables the Internet of Things (IoT) through the Real Time Web | 855028 | SME-1 | <https://cordis.europa.eu/project/id/855028> | IoT |
| System EYE | сutting-edge innovation to make your drive safer, collect and monetize automotive data | 837186 | SME-1 | <https://cordis.europa.eu/project/id/837186> | IoT |
| TALENT SWARM 7D | Collaborative Work Environment for Project Lifecycle Management (PLM) of Complex Industrial Assets | 816333 | SME-1 | <https://cordis.europa.eu/project/id/816333> | IoT |
| TCBL | Textile and Clothing Business Labs Transformative Business Models for the Textile Clothing Sector | 646133 | IA | <https://cordis.europa.eu/project/id/646133> | Supply Chain |
| TERMINET | nexT gEneRation sMart INterconnectEd ioT | 957406 | RIA | <https://cordis.europa.eu/project/id/957406> | IoT |
| TeSLA | An Adaptive Trust-based eassesment System for Learning | 688520 | IA | <https://cordis.europa.eu/project/id/688520> | Digital Society |
| TITANIUM | Tools for the Investigation of Transactions in Underground Markets | 740558 | RIA | <https://cordis.europa.eu/project/id/740558> | CyberSecurity |
| TNT | Truth-not-Trust | 881092 | SME-2 | <https://cordis.europa.eu/project/id/881092> | CyberSecurity |
| TOKEN | Transformative Impact Of BlocKchain tEchnologies iN Public Services | 870603 | RIA | <https://cordis.europa.eu/project/id/870603> | Digital Society |
| TRAPEZE | TRAPEZE - TRAnsparency, Privacy and security for European citiZEns | 883464 | IA | <https://cordis.europa.eu/project/id/883464> | Secure Societies |
| TRAXEN tracking | TRAXEN – Ultra low power, long life tracking sensor | 836660 | SME-1 | <https://cordis.europa.eu/project/id/836660> | Supply Chain |
| TreBlo | Trusted and reliable content on future blockchains | 957228 | RIA | <https://cordis.europa.eu/project/id/957228> | NGI |
| TrustEat | Building a trusty future food system by using blockchain tech | 952600 | CSA | <https://cordis.europa.eu/project/id/952600> | Food Quality/Fraud |
| TXpp | A technological solution for the 50 billion EUR VAT fraud problem | 835042 | SME-1 | <https://cordis.europa.eu/project/id/835042> | Digital Economy |
| UNIFIED SCIENCE | THE FIRST ACADEMIC SOCIAL NETWORK CREATOR THAT EMPOWERS RESEARCHERS TO COLLABORATE, CONTROL PRIVACY AND INCREASE THEIR IMPACT | 854728 | SME-1 | <https://cordis.europa.eu/project/id/854728> | Digital Society |
| UNIGEM | Next Generation ‘Unified Guest Engagement System’ for Smart Hospitality Services and Unparalleled Guest Loyalty | 775371 | SME-1 | <https://cordis.europa.eu/project/id/775371> | Digital Society |
| VerifiedID | The online platform for Identity Verification that gives back personal data ownership to the citizens | 835783 | SME-1 | <https://cordis.europa.eu/project/id/835783> | FinTech |
| VICINITY | Open virtual neighbourhood network to connect intelligent buildings and smart objects | 688467 | RIA | <https://cordis.europa.eu/project/id/688467> | IoT |
| WaMos | Wastewater Treatment Monitoring and Advisory System | 868462 | SME-1 | <https://cordis.europa.eu/project/id/868462> | IoT |
| WeldGalaxy | Digital Dynamic Knowledge Platform for Welding in Manufacturing Industries | 822106 | IA | <https://cordis.europa.eu/project/id/822106> | Manufacturing |
| WeVerify | WIDER AND ENHANCED VERIFICATION FOR YOU | 825297 | IA | <https://cordis.europa.eu/project/id/825297> | Media |
| WIDGET 3.0 | Online tool to crowdfund NGO and Charity projects through the booming e-commerce market andbeyond! | 711367 | SME-2 | <https://cordis.europa.eu/project/id/711367> | Digital Society |
| WORKERO | WORKERO – Connecting Space & Knowledge | 827608 | SME-1 | <https://cordis.europa.eu/project/id/827608> | Smart City |

Annex B:
Overview Horizon 2020 Programmes and Topics

# B.1 Horizon 2020 Programmes

# B.2 Horizon 2020 Topics

Annex:
Bibliography

Annex :
Change History

| Date | Version | Information about changes |
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