

ARTICONF

smART social media eCOsytstems in a blockchaiN Federated environment

Radu Prodan

University of Klagenfurt, Austria





ARTICONF Horizon 2020 Project

- smART social media eCOsytstems in a blockchaiN Federated environment
 - € 4.16 million
 - January 2019 June 2022
- H2020-ICT-2018-2020, ICT-28-2018
 - Future hyperconnected sociality

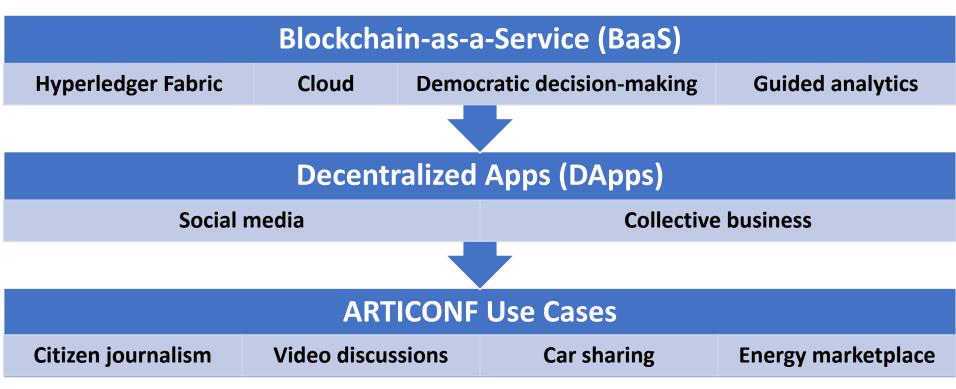
Partners

- University of Klagenfurt, Austria
- University of Amsterdam, Netherlands
- University of Edinburgh, UK
- · University for Information Science and Technology, Macedonia
- MOG Technologies SA, Portugal
- Agilia Center SL, Spain
- bitYoga AS, Norway
- Vialog Ltd, UK



ARTICONF Value Proposition

 Open-source PaaS toolset for integrated decentralized application (DApp) development

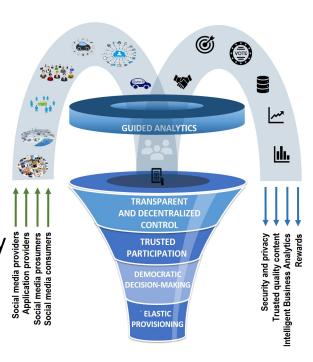


www.articonf.eu 18.05.2022 EU Day, CCGrid 2022



ARTICONF Open-Source Toolset

- TIC: BaaS for transparent, decentralized and federated infrastructure deployment
 - https://gitlab.articonf.eu:4430/by/tic
- CONF: elastic provisioning of distributed Cloud infrastructures for DApp
 - https://gitlab.articonf.eu:4430/uva/conf
- **SMART:** democratic decision-making for community evolution, personalized recommendations, trustworthy content generation and tokenized rewarding
 - https://gitlab.articonf.eu:4430/uni-klu/smart
- TAC: guided visual analytics for improved collaborative economy
 - https://gitlab.articonf.eu:4430/uist/tac





Cloud Technologies

- Hyperledger Fabric (open source) for blockchain implementations
- OpenStack (open source), Amazon Web Services, and Google Cloud for federated BaaS deployment
- Gluster File System (open source) for distributed, scalable, resilient, and concurrent blockchain data storage for social DApps
- Kubernetes for reliable and scalable Cloud-native BaaS orchestration
- **TOSCA** for describing and mapping the Cloud infrastructure topology with performance requirements of social DApps
- Elasticsearch and Kibana (open source) for blockchain transaction analysis and visualization
- Docker CE (open source) for the ARTICONF tools packaging and delivery
- SonarQube (open source) for measuring and analyzing source code quality
- **Jenkins** (open-source) based for continuous development, integration, and delivery of the toolset microservices



TRANGO: Trip and Go



www.articonf.eu 18.05.2022 EU Day, CCGrid 2022



Carsharing Market Preparation

- Over 500 beta testers
 - Horizon 2020 ReachOut project
 - Adalab Software Bootcamp



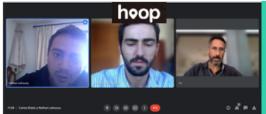
- Eccocar, Journify, Carhoop, Activacar
- Pilot H2020 EOSC DIH use case
 - European Open Science Cloud Digital Innovation Hub
 - EGI-ACE: Advanced Computing for EOSC











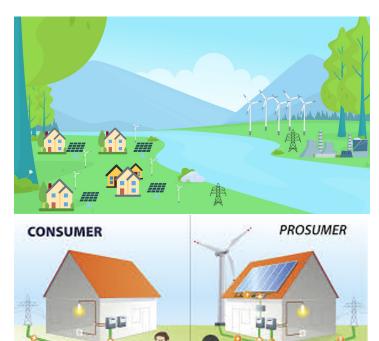




Energy Marketplace

- DApp for renewable energy sources integration and transaction
 - Solar panels and wind mills
 - Smart meters

- Stakeholders
 - Energy prosumer
 - Energy consumer
 - Energy service provider
 - Energy service regulator



www.articonf.eu 18.05.2022 EU Day, CCGrid 2022



Renew Ledger





https://articonf.eu/

https://www.youtube.com/c/ARTICONF

Radu Prodan, University of Klagenfurt, Austria

