



MARTEL AND GREEN DIGITAL

Engagement for Sustainable Digital Transformation

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Green Digital for Sustainable Transformation workshop – 31st May 2022

WHO WE ARE

A **DYNAMIC**

 **SWISS-BASED COMPANY**

 **DUTCH SUBSIDIARY**

25+ YEARS EXPERIENCE

100+ RESEARCH & INNOVATION PROJECTS



GLOBAL PARTNERSHIPS



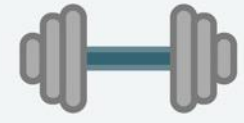
RESEARCH & INNOVATION

EU FUNDING



CONSULTING

TRAINING



MEDIA & COMMUNICATION

WHAT WE DO

AN AMBITIOUS PLAN

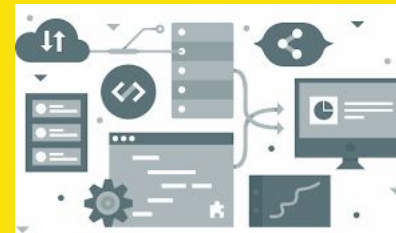
To empower our partners and customers in the design and implementation of innovation strategies and plans, supporting them throughout their journey from novel ideas to technological implementation, media and market strategy



Boosting Digital Transformation



Outreach and Impact Creation



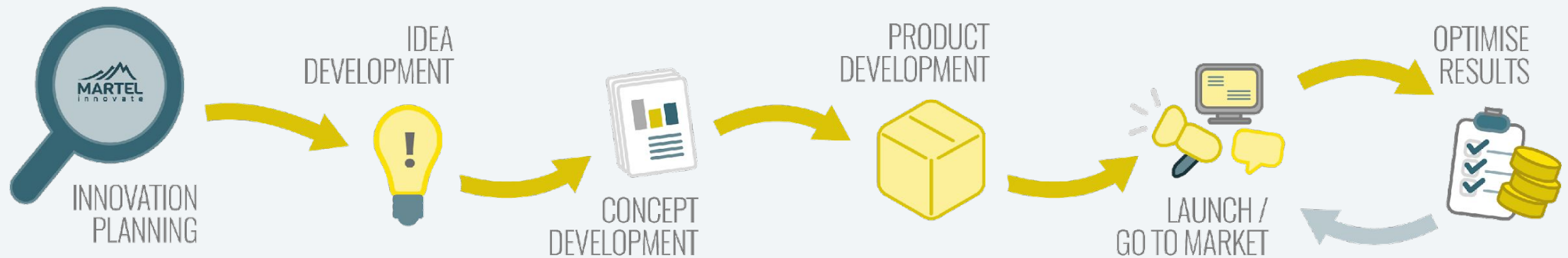
Embracing Open Technologies



ICT for Sustainable Development

OUR VALUE PROPOSITION

A comprehensive value driven approach supporting all innovation stages from idea to execution:



Martel's value proposition is delivered via our People, Know-how, Services, Technology, Processes and Partnerships

An agile combination of business, technology and media services lead by an international team of highly skilled and committed professionals

MARTEL IN EC FUNDED R&I PROJECTS



QUALIFIED EXPERTISE, CREDIBILITY, STRONG CONNECTIONS AND VISIBILITY

MARTEL'S MAIN ROLES

- + Project Coordinator
- + Project Management
- + Strategies / Roadmapping
- + Communication/Dissemination
- + Community building
- + Technical Management
- + R&D Lead / Contributor

R&I AREAS OF EXPERTISE

- + Next Generation Internet
- + Advanced media and content
- + Digital Education
- + Cloud, IoT, Edge, AI, 5G/6G, Big Data
- + Smart Cities / FIWARE
- + Satellite Communication
- + International Cooperation

40 H2020 projects | 16.5 M€ in 6 years | 30% success rate (!)

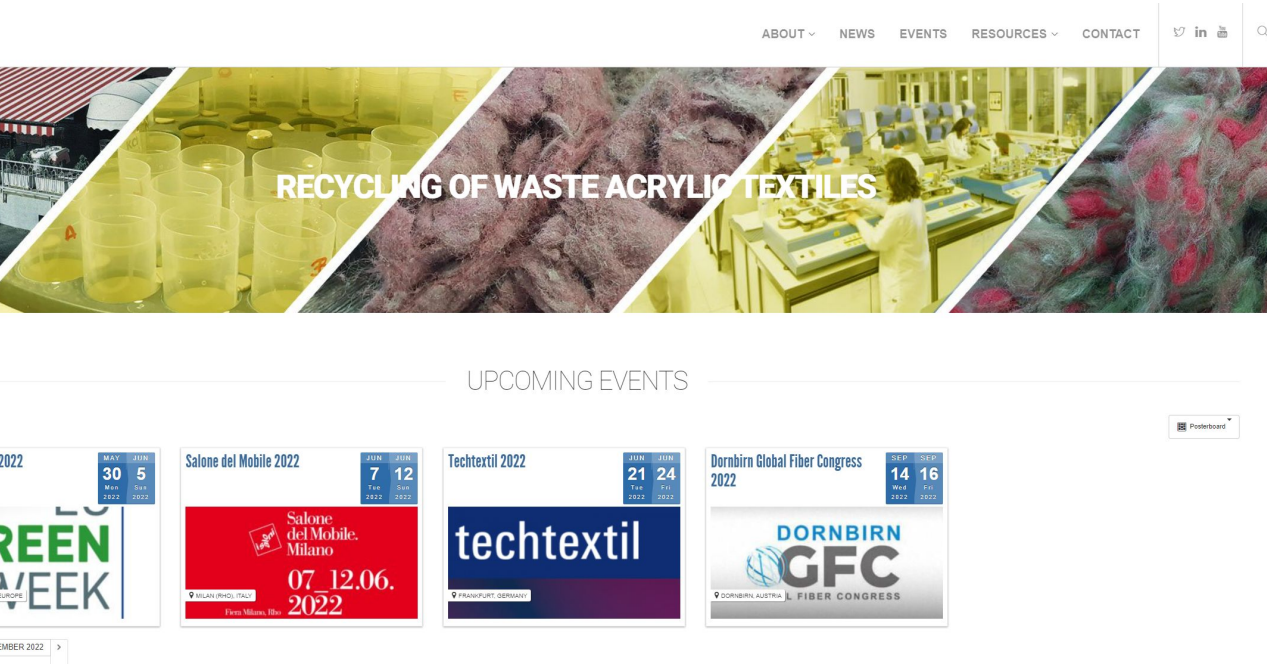




OUR PROJECTS

<https://www.martel-innovate.com/projects/>

REACT PROJECT – MANAGING THE WASTE ACRYLIC TEXTILES

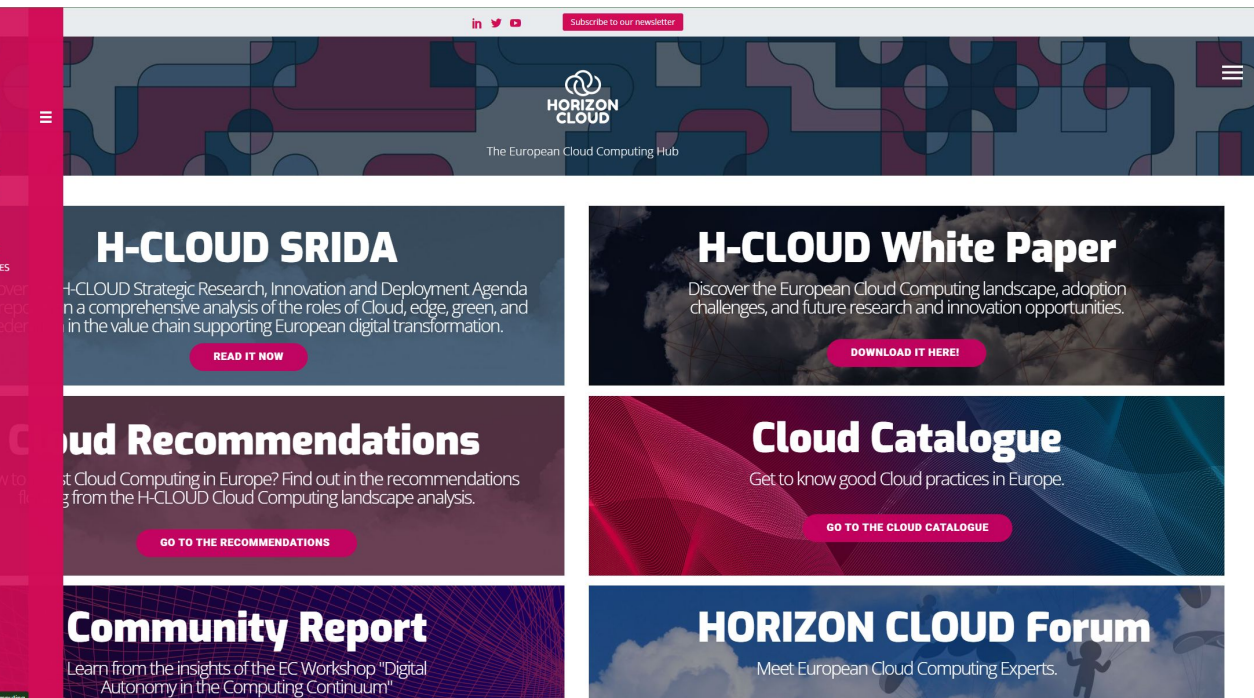


+ Research and Innovation Action

<https://www.react-project.net/>

- To remove hazardous substances affecting quality of the secondary raw materials and prevent their recycling
- To obtain textile products from 100% recycled fibre
- To re-use textiles for other production cycles, also with virgin fibres, to reach 30 % of waste prevented from disposal
- To produce recommendations on production chain implementation, technology transfer and standards.

HORIZON CLOUD – THE EUROPEAN CLOUD COMPUTING HUB



+ Coordination and Support Action

<https://www.h-cloud.eu/>

- EC initiative to consolidate and grow the Cloud Computing research and innovation community in Europe
- Landscaping and analysing research, market, skill gap, Open Source, etc.
- Community building and engagement
- **Green Cloud** is one of the main topics:
 - + Which KPI for true end-to-end assessment?
 - + Balancing Green Cloud and Edge Computing
 - + Considering Cloud Core, Network, and Devices
 - + Bigger picture: policies, circular economy, ...

MARTEL'S AFFILIATIONS



CONNECTED TO THE INTERNATIONAL INNOVATION SCENE



ORCHESTRA CITIES FOR SUSTAINABLE SMART CITIES SERVICES



orchestracities.com

- + It allows cities to easily **collect, process and share data, analytics insights and services**
- + It provides the foundation for a citizen-centric IoT-based platform to help **reduce costs** and **drive their digital transformation**
- + It allows definition, offering and monitoring of several services and applications such as **waste and water management, transportation, air quality monitoring, traffic and parking, etc.**

ORCHESTRA CITIES FEATURES



**OPEN SOURCE SOFTWARE,
OPEN APIS AND OPEN DATA
MODELS**



**SHARING OF DATA AND
METRICS AMONG CITIES**



**MULTIDIMENSIONAL DATA AT
SCALE: SCENARIO, LOCATION
AND TIME**



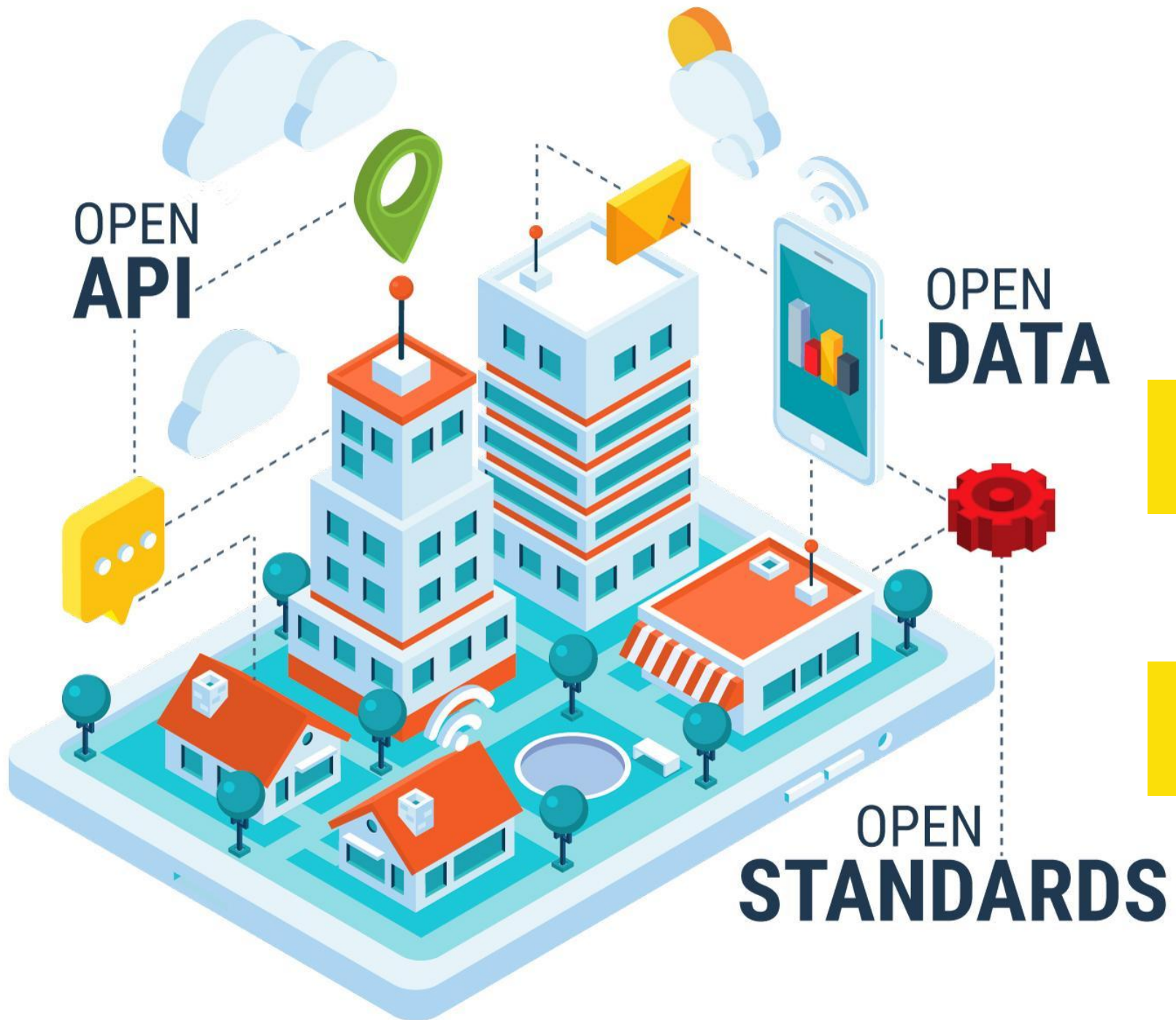
COST-SHARING AMONG CITIES



**MODULAR AND SCALABLE
CLOUD SERVICES**

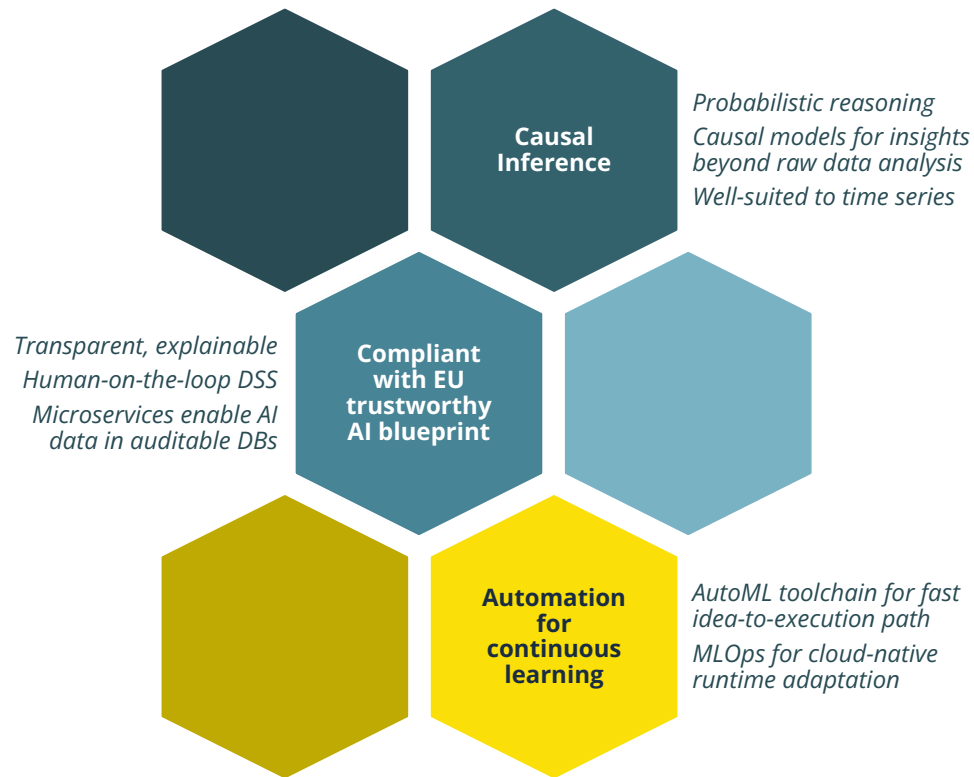


REALTIME CITY MONITORING



**CREATE AN
“OPEN”
PLATFORM**

AI Approach



Features and Benefits

- + **AI boosts CO₂ emission monitoring**
 - Improves time series data with inference
 - Combines measured and calculated CO₂
- + **AI supports decision- and policy-making**
 - Assesses overall impact of city actions
 - Intervention and counterfactual scenarios
- + **AI provides system-wide improvements**
 - Enhances data assets for all city actors

A HOLISTIC VIEW OF DIGITAL AND GREEN TRANSFORMATION



- + Martel does not jump head-first into tech solutionism
- + The multiple aspects of systemic challenges are considered
 - Technology can be part of the problem, and is never the solution alone
 - Combining dynamically many perspectives and expertise is key
- + Martel's positioning, values, and approaches are a good fit
 - Multi-faceted (tech, media, consulting, processes, business, products)
 - Ecosystem-orientated (work with clients, partners, competitors, society)
 - End-to-end, goal-driven (avoid tunnel vision, keep eyes on the end result)



THANK YOU FOR YOUR ATTENTION

martel-innovate.com

