

**MATRYCS enhances the implementation of energy efficiency policy objectives with the adoption of novel validated business models for the building sector, by opening new opportunities in light of the Big Data approach for decision-making.**

### Contact Details

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MATRYCS

### Who we are:



**Unlocking Big Data potential: Data-driven applications for Building Energy Management and Policy Making**

[www.matrycs.eu](http://www.matrycs.eu)



The MATRYCS project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 101000158.

## Our vision

MATRYCS will address emerging challenges in Big Data management for buildings with an **open holistic solution** for Business to Business platforms. A competitive solution to stakeholders in the building sector to revolutionise energy efficiency and management in buildings.

MATRYCS envisions smart **energy-aware buildings** towards a real-data building economy by providing **innovative analytics building services** targeting 4 themes and covering different perspectives in the whole building sector:



### PERFORMANCE

Monitoring and improvement of the energy performance of buildings



### DESIGN

Design facilitation and development of building infrastructure



### POLICY

Policy-making support and policy impact assessment



### FUND

De-risking of investments in energy efficiency

## Approach

MATRYCS will engage a wide range of stakeholders in a Building Data Alliance to combine efforts across Europe and bring AI-powered cloud-based data analytics to building lifecycle management.

The **MATRYCS Modular Toolbox**, based on open cloud-based data analytics, will provide Solutions for building data exchange, management and real-time processing based on three main pillars:

### 1. GOVERNANCE

Data collection, integration of heterogeneous data



### 2. PROCESSING

Library of reusable Artificial Intelligence-based models



### 3. ANALYTICS

A set of analytics tools as a service



The MATRYCS service analytics reference framework will be tested for real-life situations and usability and applied in **11 large scale pilots** that represent a multitude of perspectives, including the regional, national and pan-European.

## Impact

- Standardization of European buildings data
- Interoperability among **data hubs** at national and supranational level
- Effective **integration of digital technologies** in the building sector value chain
- Innovative analytics** for the monitoring and verification of energy savings
- New data-driven business models** and **innovative energy services**
- Strengthened links with Buildings' Big Data programs and initiatives** in regional, national and European level
- Tangible **engagement of key stakeholders** on the building sector value chain
- Development of **sustainable ecosystems around big data platforms** for real-time scale technical analysis and policymaking