

# Open Commons

A non-profit organization in service of  
Smart Connected Communities

<http://opencommons.org>

**FIGURE 1:  
DIGITAL ENABLEMENT  
OF CIRCULAR ECONOMY  
IN CITIES...**

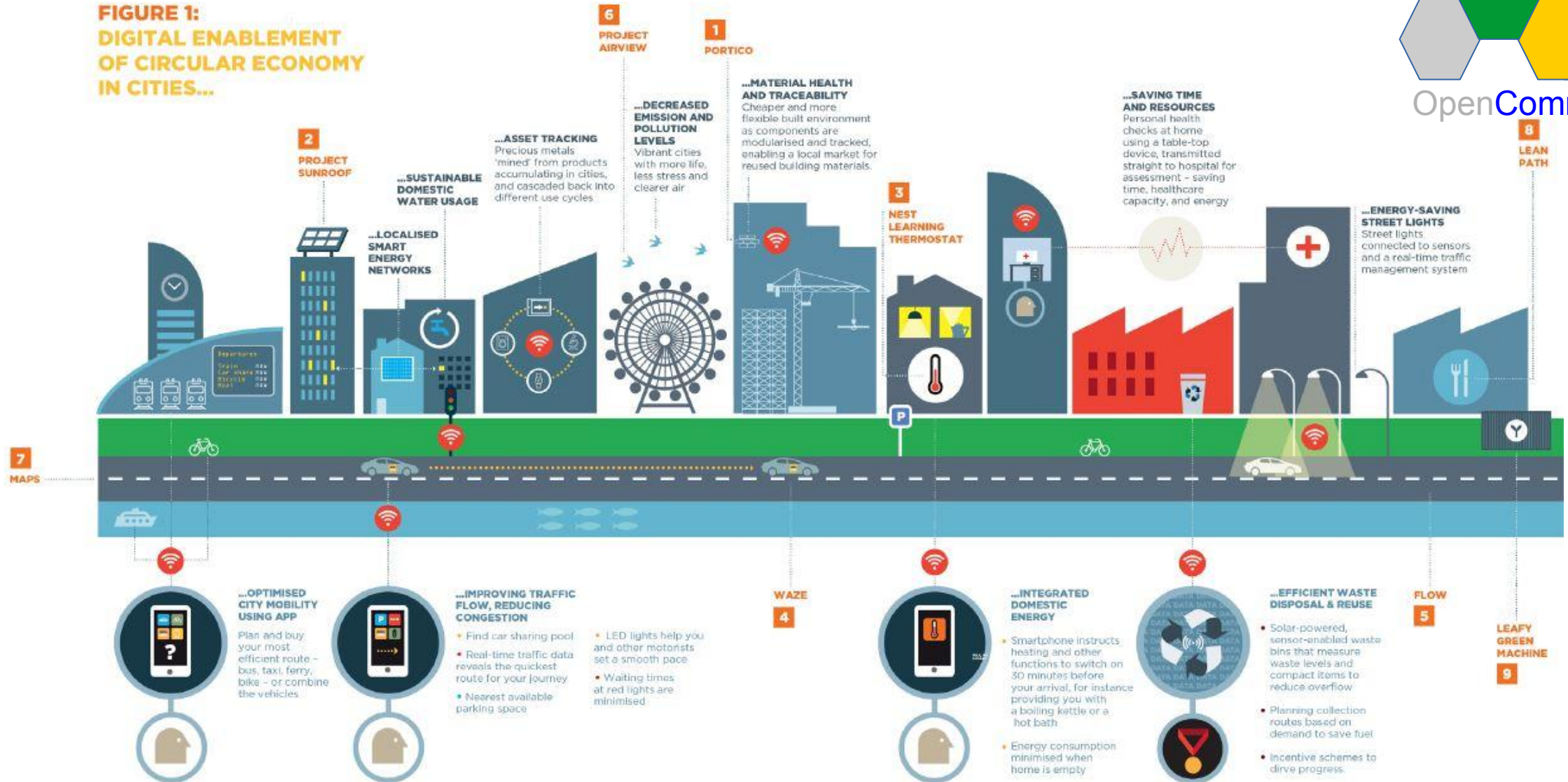
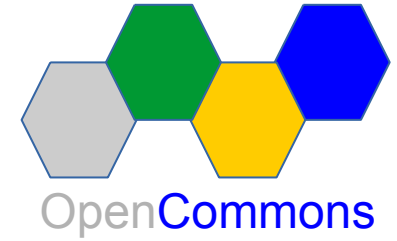
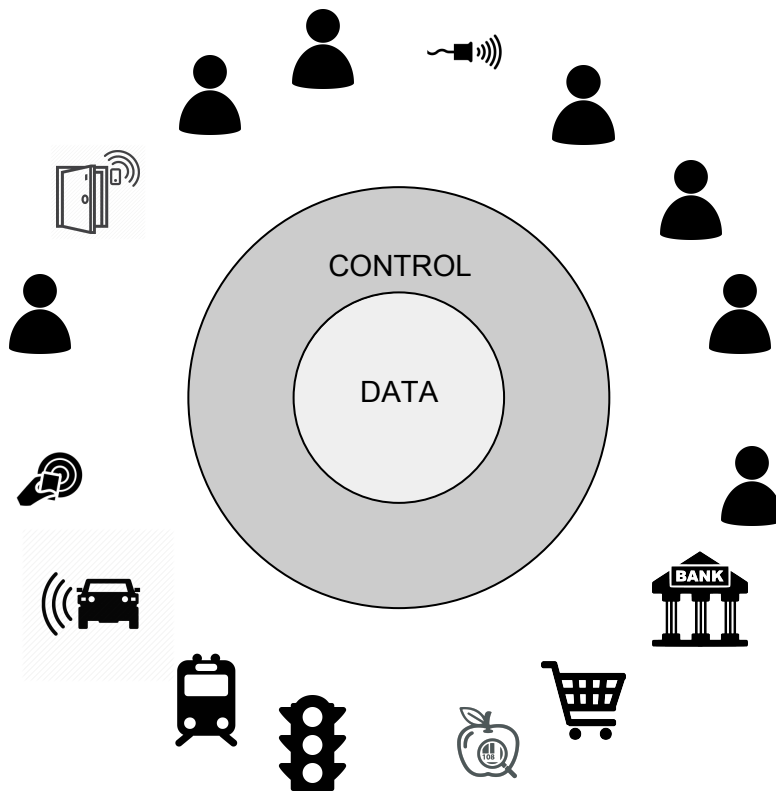


Figure originally from *Intelligent Assets: Unlocking the Circular Economy Potential*, and adapted for this paper.

# Today



Smart City transaction platform protects data through a control layer.

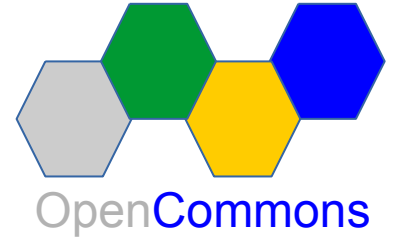


## Platforms:

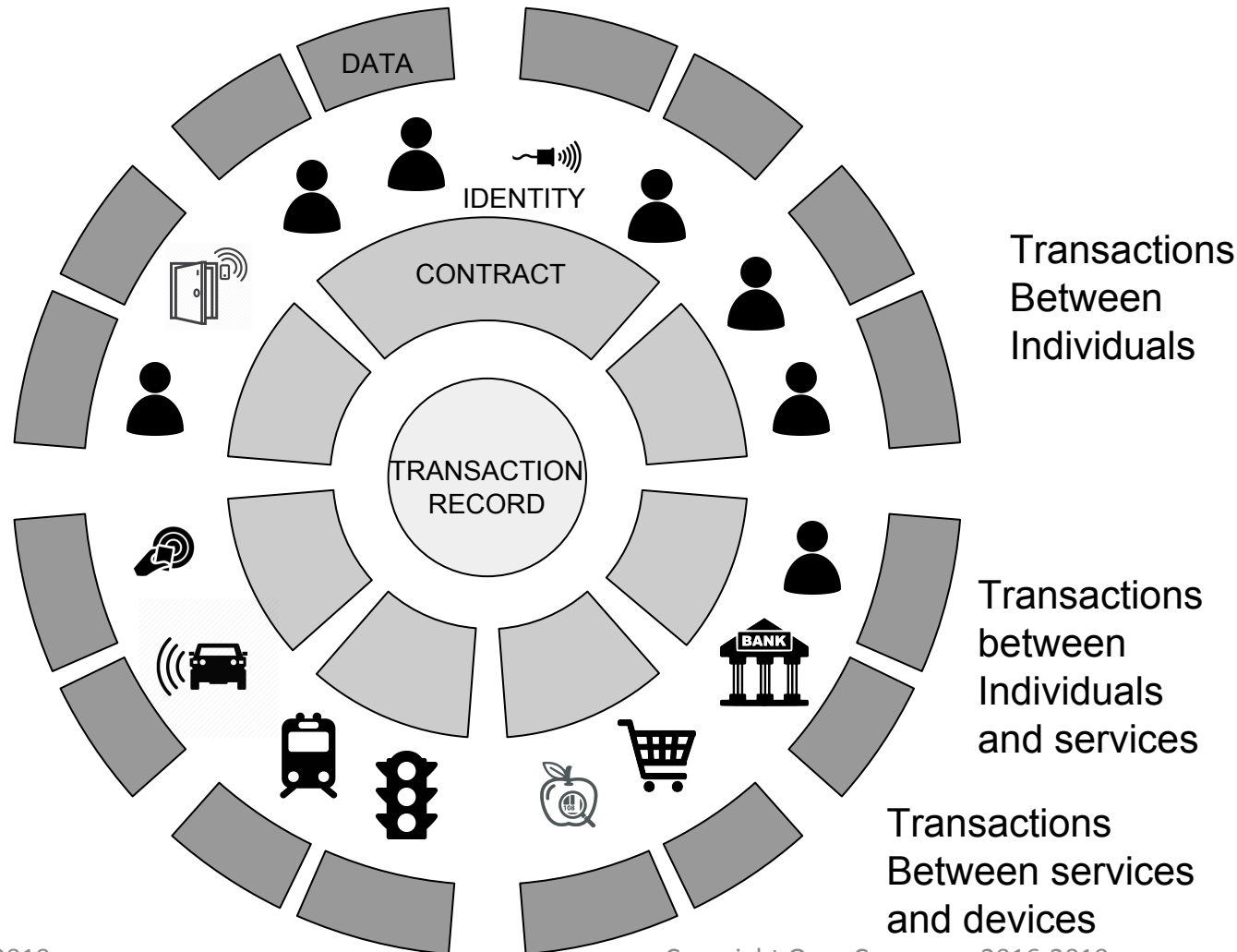
- IBM - Bluemix
- GE - Predix
- Cisco - AllJoyn
- Intel - IoTivity
- Google - Sidewalk Labs
- Amazon - AWS IoT services
- ? FIWARE



# Goal



Transactions between groups and sensors



Build a smart city transaction platform that eliminates these issues, builds trust and enables new services.

## Benefits:

- Privacy
- Interoperability
- Innovation
- Contractual Monopoly
- Transaction friction
- Scalability
- Resilience

## Issues:

- Business Model
- Client Competence



# Transaction Record



## Immutable

Once written transactions cannot be changed. Errors need to be corrected with new transactions leaving a true record of what happened.

## Examples:

- Any Blockchain





# Data



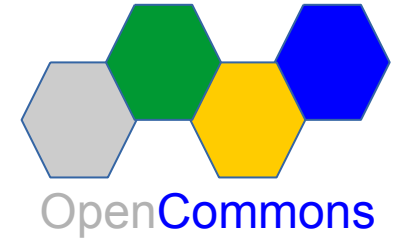
## Personal to Identity

Enables users to manage and deploy their key personal data in a highly secure and structured way

### Examples:

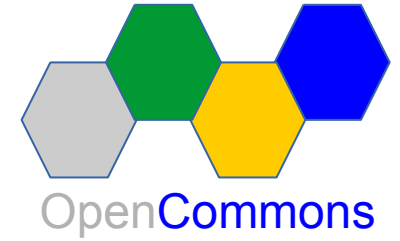
- Solid
- OpenPDS
- Project Bali

# Projects



- Public Election Funding
- Memberships or Resident's Card ([DigitalTel](#))
- Funding Commercial Real Estate ([Crowdstreet](#))
- Funding Infrastructure ([Infrashares](#))

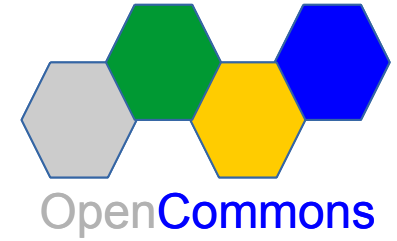
# OpenCommons



Business League (501c6): an association of persons having some common business interest, the purpose of which is to promote such common interest and not to engage in a regular business of a kind ordinarily carried on for profit.

# Operations (Smart City)

- Best Practices of Smart Cities (Standards, Implementations)
- Collaborative Legal Platform (Code, IP, Rules of Engagement)
- Collaborative Business Platform (Catalogue, Interoperability)
- Collaborative Technical Platform (Coms, Docs, Code, Data)
- Educational Platform (Smart Cities and Communities, Civic Eco)
- Collaborative Professional Platform (Conference, Digital Library)
- Collaborative Marketing (What is smart city)



# IoT-Enabled Smart City Framework

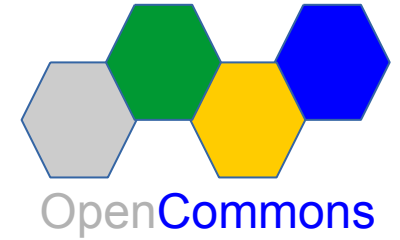
- Smart City technologies are being developed and deployed at a rapid pace.
- Many previous smart city deployments are custom solutions.
- A number of architectural design efforts are underway worldwide but have not yet converged.
- NIST and its partners are convening a public working group to distill a common set of architectural features from these architectural efforts and city stakeholders.

**Goal:** A reference framework for the development incremental and composable Smart Cities





# OpenCommons - Smart City



Vision and Marketing

Standards and Interoperability

Catalog and Interfaces

Legal and Operational

## Membership

Advisory Board

Advisory Board

Advisory Board

Advisory Board

Vision

Standards

Products

Membership

Website

Developers

Interfaces

Contracts

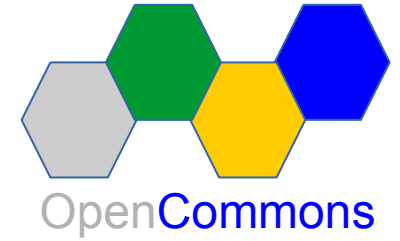
Literature

Maintainers

Supporters

Arbitration

# Membership



Type	Size	1	5	10	50	100	1000	>10000
Leader (50 Max) Add One Board Member		\$10000	\$10000	\$11000	\$13000	\$15000	\$20000	\$35000
Sponsor Add Committee Memberships		\$250	\$1000	\$1500	\$4500	\$7500	\$15000	\$30000
Member Organization Membership		\$150	\$600	\$1000	\$3000	\$5000	\$10000	\$25000