

Innovation Model for Community Safety Management in Chicago

Building safer communities in Chicago is a wicked problem, but the emerging technologies and new organizational models for innovation may contribute to a better portfolio of interventions. Chicago is heavily investing on data collection, and there are also plenty of other organizations who are working on the data to improve safety of communities. There are also bottom-up efforts from residents and start-ups. To connect those dots to deliver smarter solutions, I propose to build 8 platforms to coordinate all those efforts:

Data Mining Platform: abstract and sort data that is collected from different community channels and resources according to different use cases, and then assign those sorted data to different entities for further utilization and application.

Stakeholder Insights Platform: collect qualitative data from different stakeholders and analyze those data to generate insights and opportunities for innovation.

Open-Source Soft-ware Platform: develop algorithm for prediction and management according to the needs and requirements from different stakeholders.

Open-Source Hardware Platform: develop infrastructure to collect data, response to emergent situations and serve residents as well as other stakeholders.

Data Visualization Platform: visualize data for different stakeholders to understand situations and make better decisions by representing data from different angles.

Technology Application Platform: design products and applications using algorithm and infrastructure in place for different stakeholders to get their job done.

Projects Evaluation Platform: display and evaluate projects and start-ups from the district for investors to connect with and invest for further development.

District Communication Platform: Use existing spaces to facilitate shared vision of leaders of different entities, and encourage communication among employees from different entities, residents, staff from government and other organizations.

CONCEPTS

Digital Transformation is the digitization of previously analog machine and service operations, organizational tasks, and managerial processes.

Algorithm is a sequence of computational steps that transform the input into the output.

IoT is to build a world where every object can be approached both through analog and digital methods.

Internet of People is a network of relationships between people.

Ecosystem Integrators are central organizers capable of "holding the whole" and creating the space for aligned action by others.

Mobilization platforms are fostering longer-term relationships to achieve shared goals and moving people to act together to facilitate mobilization.

Learning Platforms are fostering deep, trust-based relationships, as participants have the opportunity to realize more potential by bringing participants together to work and share insights over time to facilitate learning.

Innovation Districts are geographic areas where leading-edge anchor institutions and companies cluster and connect with start-ups, business incubators and accelerators.

Innovation Ecosystem is a synergistic relationship between people, firms and place (the physical geography of the district) that facilitates idea generation and accelerates commercialization.

Open Innovation is process whereby companies and firms more openly generate new ideas and bring them to market by nimbly drawing on both internal and external sources.

Collaborative Leadership Network is a collection of leaders from key institutions, firms, and sectors who regularly and formally cooperate on the design, delivery, marketing, and governance of the district.

Inclusive Growth is using innovation districts as a platform to regenerate adjoining distressed neighborhoods as well as creating educational, employment, and other opportunities for low-income residents of the city.

Infrastructures are tools that undergird shared, learned practices.

Microaction Systems can establish continuity through ongoing participation on a platform.

Strong Ties are relationships within similar fields.

Weak Ties are new relationships across sectors.

Entrepreneurship Process is the process by which new inventions reach the market and ultimately the users.

Creative Design Process is the sub-process that results in invention by applying knowledge to create artifacts that are novel and useful to others.

Exploration is when team members interact with other teams.

Engagement is when they interact with each other.

KEYS

Government Communities Infrastructures

Others Stakeholders Platform to Build

Data Flow Insights Flow Other Value Exchange

