



# Karlstad





Karlstad

## Outline

- The pilot context
- Pre-Hack
- The Hackathon event
- Post-Hack
- Towards the second O4C Hackathon



Karlstad

## The pilot context

**The question:** How can open data contribute to a healthier life and to preventing illness?

**Geographical focus:** Kronoparken

**Data context:** A lot of general public health data, but no substantial open health data on local level. Data owners primarily the health care system and academia.



Karlstad

## The pilot context

### Hackathon process working group:

Experio Lab (County Council of Värmland)

Karlstad Innovation Park

The Research Institutes of Sweden

The County Council of Värmland subdivisions

- > Kronoparken Primary Health Care Center

- > Kronoparken Public Dental Services

Karlstad University

Ett öppnare kronoparken

### Other stakeholders involved in the design and execution of planned activities:

**Government:** Other County Council of Värmland subdivisions, Regional Dental Healthcare Services, Region Värmland, Karlstad Municipality

**Academia:** Interactive Institute

**Business:** Redpill LinPro, Know-IT, local student startups, Swedish Pharmacy

**Civil Society:** Ett öppnare Kronoparken, Fritidsbanken, Civic Karlstad, Wellness Värmland





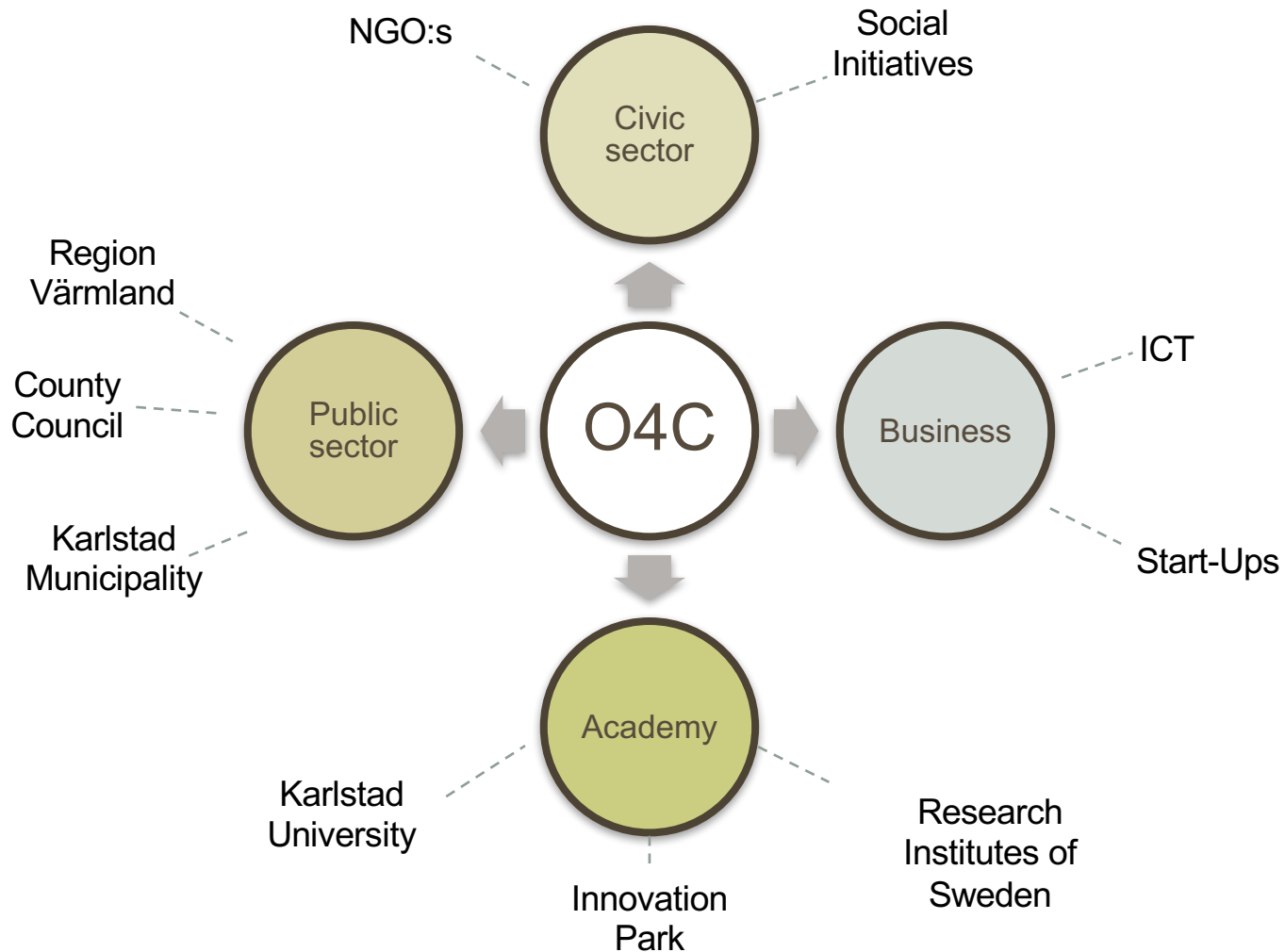


## • Overview of activities

- Choosing one geographical area – Kronoparken
- Establishing local steering group for the hackathon - creating a shared ownership where academia, business, civil sector and public sector all have different responsibilities.
- Emesis on creating an ecosystem on the intersection between open data, citizens challenges and public health
- Research oriented – Understanding the communities priorities together with the community
- Citizen Meetings and Service Jams leading up to the Hackathon



# The Karlstad/Kronoparken ecosystem





Karlstad

## Datasets and API:s

**Context:** A lot of time was put into accumulating a mix of datasets, repositories and API keys. Due to the sensitive nature of personal health data, there were many challenges on opening up datasets in an responsible way.

### Data for the Hackathon

- Datasets on local health provided by local health care system and academia
- Repositories on public health data available from national health agencies.
- API:s on health care recommendation provided by national health services.
- Other API:s, such as geodata, event data and RSS feed provided by a mix of actors.



## Pre-hack phase

Pre-hack activities, research and data accumulations resulted in four cases:

- Our health data – where we live!
- Data ♥ Fritidsbanken
- Data to meet on Kronoparken
- Talk about health // meet the public health care



Karlstad

## Hackathon for Health

- The Hackathon took place between 11 and 13 of November 2016.
- 30 participants representing healthcare system, business, NGO:s, academia and other branches of public sector.
- Friday: kick-off for partners, actors within the ecosystem and other organisations
- Saturday and Sunday: Hackathon process



# KARLSTAD Kick-off







KARLSTAD

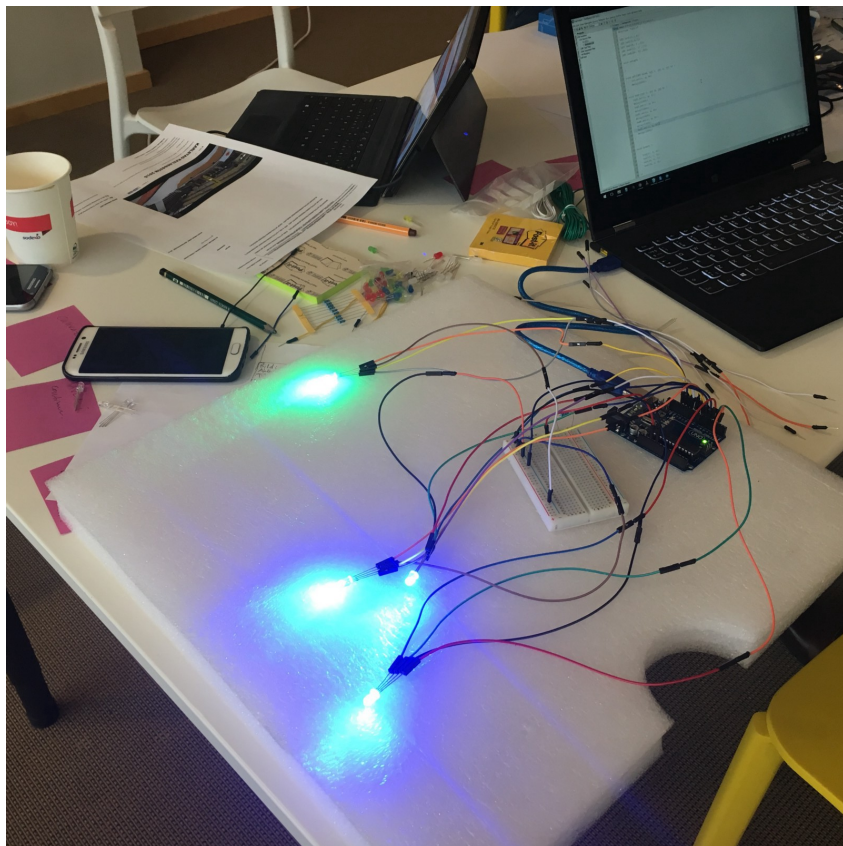
# Hackathon for Health





HACKATHON FOR HEALTH KARLSTAD

Hackathon for Health 12-13 nov

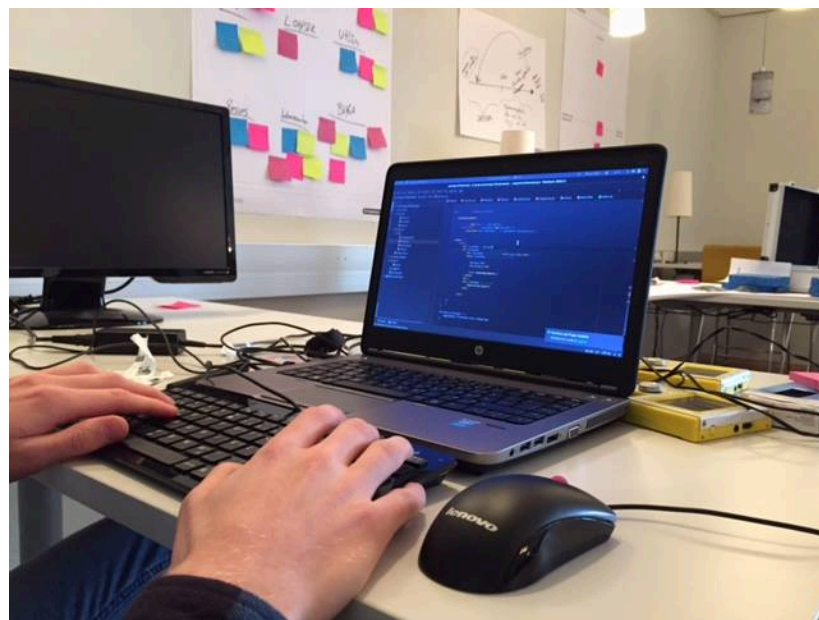






HACKATHON FOR HEALTH KARLSTAD

Hackathon for Health 12-13 nov





KARLSTAD

## HACKATHON RESULTS

- Relevant cases based on relevant needs on Kronoparken
- Four sharp pitches based on actual needs
- 35 satisfied participants who want to continue exploring new ways in investigating the potential of open data for new welfare services
- Potential for ideas to be developed at Karlstad Innovation Park
- A strong partnership between university, health care, civil society, Karlstad Innovation Park and the research institute RISE
- 2000 lines of code



Karlstad

## Post-hack

- Two post-hackathon projects live and in development.
- Funding for establishing open-data lab in [xKRP - Community Experience Data Lab Kronoparken](#)
- [Hackathon Summary](#)



Karlstad

## Towards the 2nd O4C Hackathon

- Supporting the actors in the ecosystem in collaboration with each other
- Focus more on creating and understanding for the health care system as a context within the hackathon framework
- Support and develop the open data framework in xKRP data lab.

Thank you for your attention!

Any Questions?

Tomas Edman  
Experio Lab / County Council of Värmland

