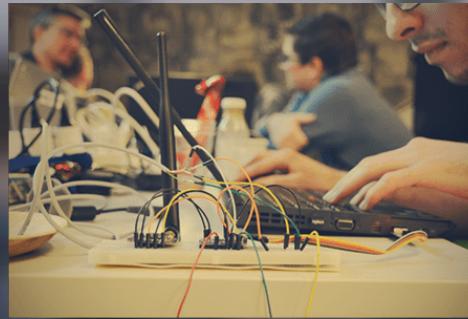




MAKEZURICH  
VOL. II

Civic Tech and LoRaWAN Hackathon for a better city



# WELCOME!

AGAIN! ;)

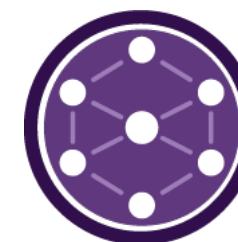


# WHAT IS THIS?

We are bringing together the local maker community and the city administration to explore new ways of solving problems of our city with the help of open networks and civic tech.



**Stadt Zürich**



**open** network  
infrastructure  
association

**Maker days | Hackdays | Hackathon**



# WHAT IS THIS?

- **COLLABORATION**
- **OPENNESS**
- **CREATIVITY**



# BE EXCELLENT TO EACH OTHER!

CODE OF CONDUCT



# SCHEDULE (TODAY)

- 10:30** Welcome session
- 12:00** Lunch
- 18:00** Dinner
- 18:30** MakeZurich IoT Platform (Hivemind, V. Bhatnagar)
- 19:00** Visualizing Linked Data with d3.js (M. Mazenauer)
- 23:00** Realtime code art (Demoshow by O. Lavrovsky)

# SCHEDULE (TOMORROW)

**09:00** Breakfast

**12:00** Pizza

**15:30** **Final submission time**

**16:00** Presentations

**18:00** Apéro

</MakeZurich>

# SEVEN **CHALLENGES** FOR A SMARTER CITY

---



1

# REAL TIME OCCUPANCY RATE CHALLENGE

Discover ways to use technology to measure and understand occupancy rate of the public transport vehicles in real time.

Provided by VBZ



By Stefan Baguette CC BY-SA 3.0 from Wikimedia Commons

## Peggy Neubert

Head of Service Quality, VBZ

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Phone: 044 411 4632

VBZ

Züri<sup>®</sup> Linie



2

# CITY FOREST VISITORS

## CHALLENGE

All year round, the forests of the city of Zurich receive thousands of visitors. How can we assess and quantify them easily and efficiently?

Provided by Grün Stadt Zürich



By Amelia Paige CC BY 3.0 from Wikimedia Commons

**Regina Wollenmann / Marvin Bürgin**

Forest management

Grün Stadt Zürich

[marvin.buergin@zuerich.ch](mailto:marvin.buergin@zuerich.ch)

3

# NO BIKE LEFT BEHIND

## CHALLENGE

How can we track and recover abandoned bikes from the stationary sharing system of Züri Velo?

Provided by PubliBike



**Thomas Hug**

Location manager

PubliBike

[thomas.hug@publibike.ch](mailto:thomas.hug@publibike.ch)



# CONQUERING THE LAST MILE

## CHALLENGE

Optimizing last-mile logistics is fundamental topic for a smarter city. How can we measure and visualize deliveries within the boundaries of the city?

Provided by the office for urban development



### **Simon Keller**

Project manager  
Office for urban development  
[simon.keller@zuerich.ch](mailto:simon.keller@zuerich.ch)

5

# TEACHER'S CALLING

## CHALLENGE

Creating a system for efficient silent alerts



By Roland zh, CC BY-SA 3.0 from Wikimedia Commons

# DISTRIBUTION GRID POWER FAILURE

## CHALLENGE

How can we improve the detection of power failures in the low voltage network for a more efficient city?

Provided by ewz



By Flominator CC BY-SA 3.0 from Wikimedia Commons

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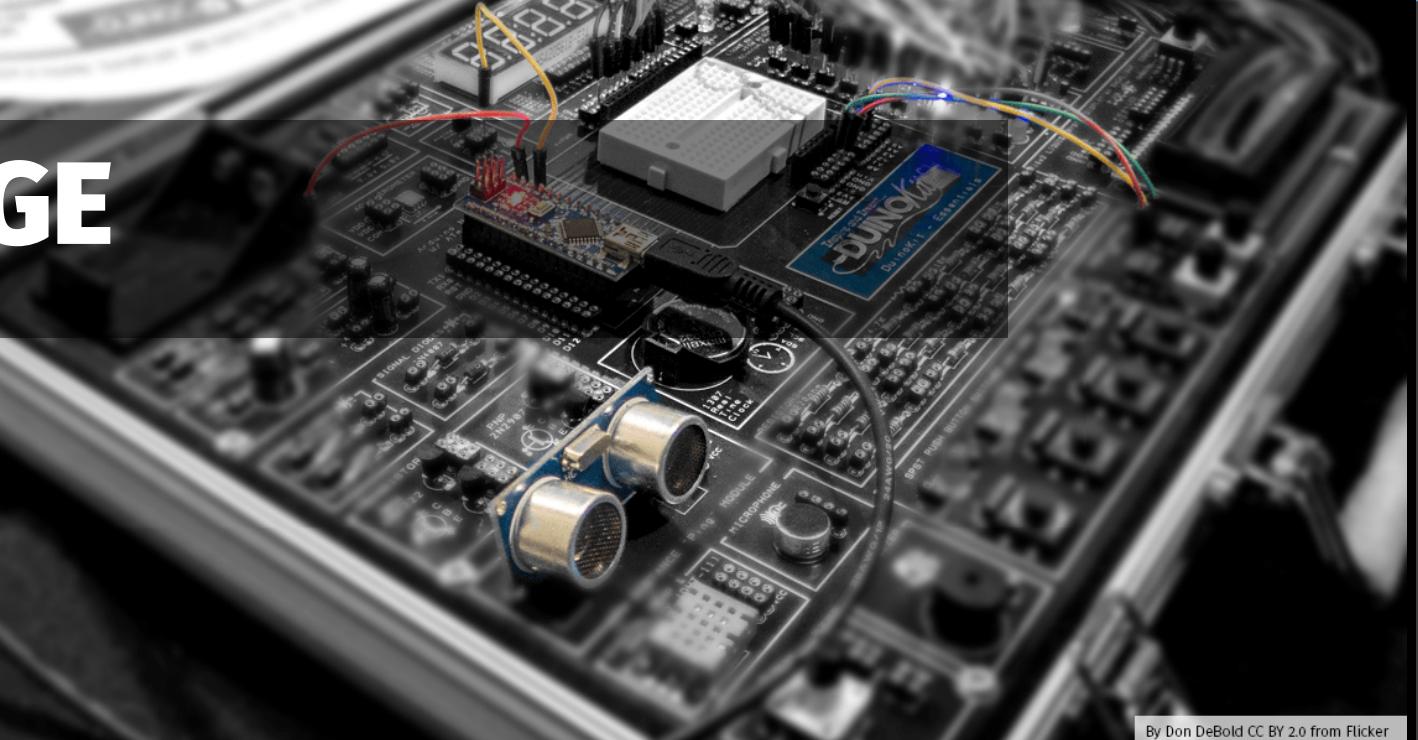
7

# OPEN CHALLENGE

## CHALLENGE

If none of the challenges fits you,  
you are free to combine all available  
elements and develop your own  
challenge and ideas!

Provided by you!

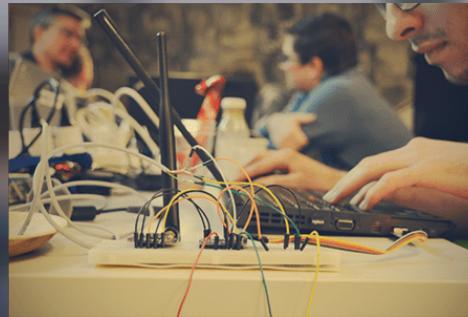


By Don DeBold CC BY 2.0 from Flickr

## Gonzalo Casas

The Things Network Zürich

[gonzalocasas@gmail.com](mailto:gonzalocasas@gmail.com)



# GETTING STARTED

# TEAM UP

- Tag yourself!
- Teams of 2 to 8 people
- We can use all the rooms



## TAG YOURSELF!

I can help with...

- Programming
- Design & UX
- Hardware
- Business cases
- Other



# MAKEZURICH.CH/START/



WHAT IS IT? SCHEDULE VENUE GUIDELINES

## GETTING STARTED

Make Zurich is an event around civic tech and LoRaWAN, and in particular, [The Things Network](#) community. On June 22nd we kicked-off Make Zurich Vol. II at Kraftwerk.

Here's a brief guide on how to [get started!](#)

## Challenges

During the kick-off, the stakeholders of all challenges presented their ideas, and the general outline of the event was introduced to participants. [Check the slides here](#) 

Find out more about each challenge and the content of the hardware kit here:

[Real Time Occupancy Rate](#) [City Forest Visitors](#) [No Bike Left Behind](#) [Conquering The Last Mile](#) [Teacher's Calling](#)  
[Distribution Grid Power Failure](#) [Open Challenge](#)

Then, decide if want to:

[START A PROJECT](#)  or join an existing project

# NOW.MAKEZURICH.CH

The screenshot shows the homepage of NOW.MAKEZURICH.CH. At the top, there is a horizontal navigation bar with eight items: CITY FOREST VISITORS, NO BIKE LEFT BEHIND, CONQUERING THE LAST MILE, TEACHER'S CALLING, DISTRIBUTION GRID POWER FAILURE, OPEN CHALLENGE, REAL-TIME OCCUPANCY RATE, and a menu icon (three horizontal lines). Below the navigation bar is a central dashboard area featuring several hexagonal cards. From left to right, the cards are: "No Bike Left Behind" (green), "O-Bike left behind" (yellow), "Occupy VBZ" (green), "BlackoutRea" (yellow), "makezurich-last-mile" (green), "Forest People" (yellow), and "EasyBus" (green). Below these cards is a dashed hexagon containing the text "Nopower". At the bottom of the page is a navigation bar with three items: MAKEZURICH.CH (with a building icon), GETTING STARTED (with a trophy icon), and KICK-OFF SLIDES (with a star icon). A green button labeled "START PROJECT" with a rocket icon is positioned between the "MAKEZURICH.CH" and "GETTING STARTED" buttons.

CITY FOREST VISITORS

NO BIKE LEFT BEHIND

CONQUERING THE LAST MILE

TEACHER'S CALLING

DISTRIBUTION GRID POWER FAILURE

OPEN CHALLENGE

REAL-TIME OCCUPANCY RATE

No Bike Left Behind

O-Bike left behind

Occupy VBZ

BlackoutRea

makezurich-last-mile

Forest People

EasyBus

Nopower

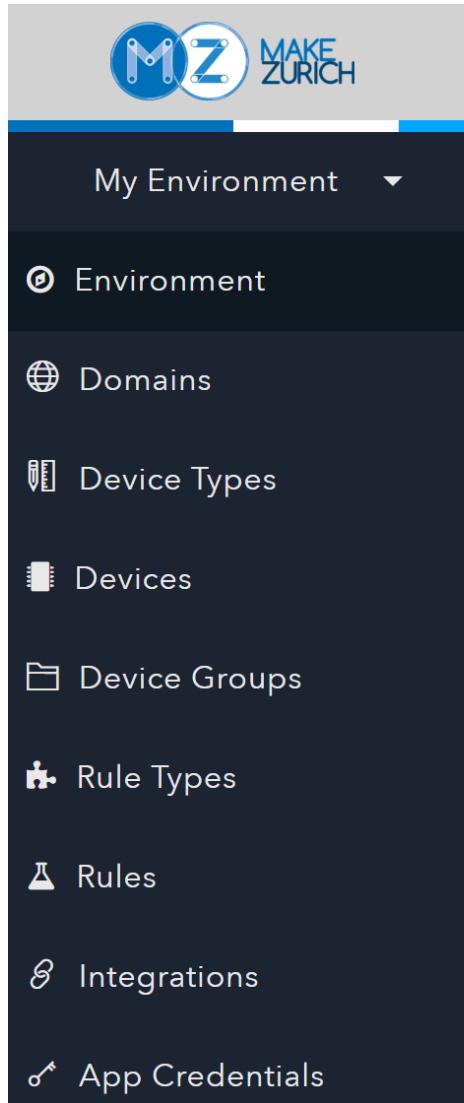
START PROJECT

MAKEZURICH.CH

GETTING STARTED

KICK-OFF SLIDES

# PLATFORM.MAKEZURICH.CH



A vertical sidebar menu with the following items:

- My Environment ▾
- Environment
- Domains
- Device Types
- Devices
- Device Groups
- Rule Types
- Rules
- Integrations
- App Credentials

## My Environment

DE

COCKPIT

QUICK START

MEMBERS

99

TOTAL  
DATAPoints

0

DATAPOINTS LAST  
24HR

42B

AVERAGE  
DATAPoint SIZE

ENVIRONMENT ID

295b38508578a00f

LAST MESSAGE

27.06.2018 08:17:15

DESCRIPTION

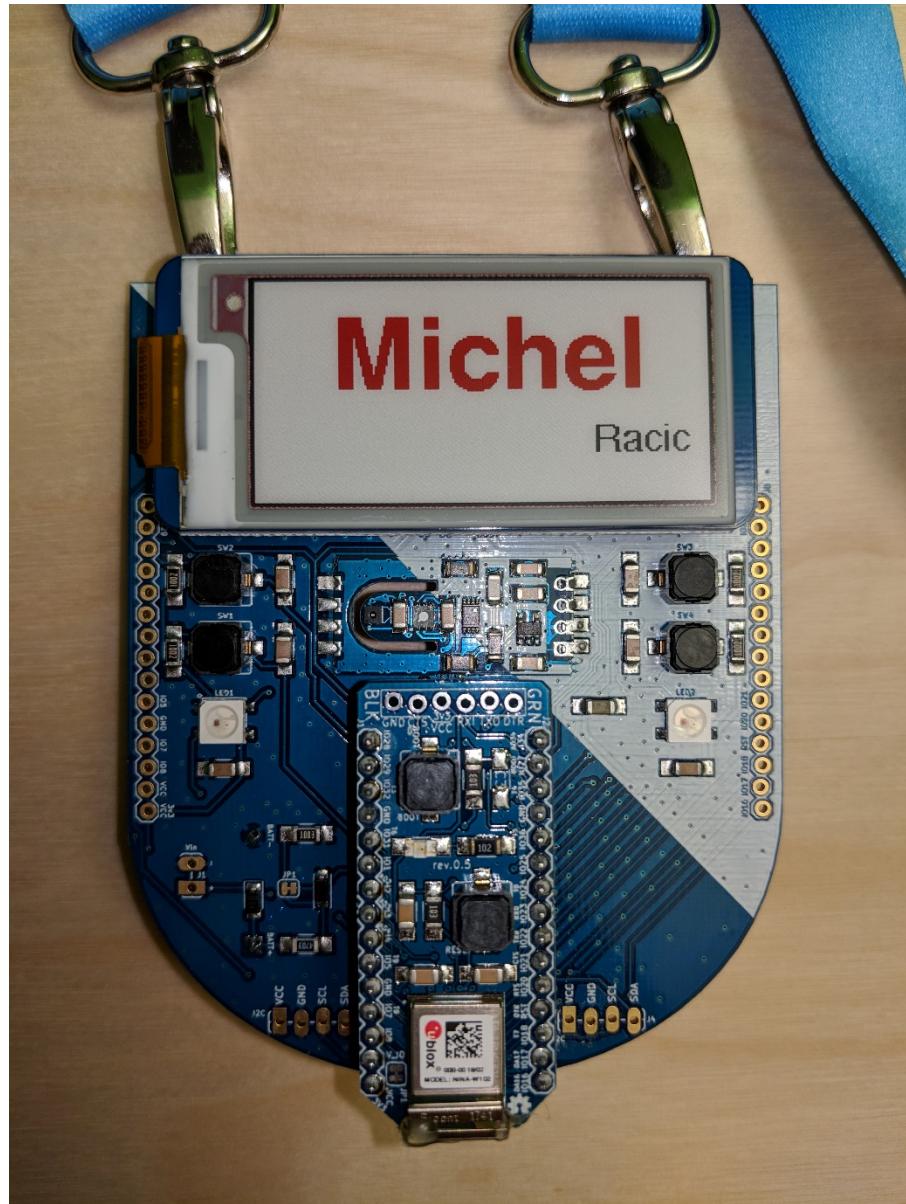
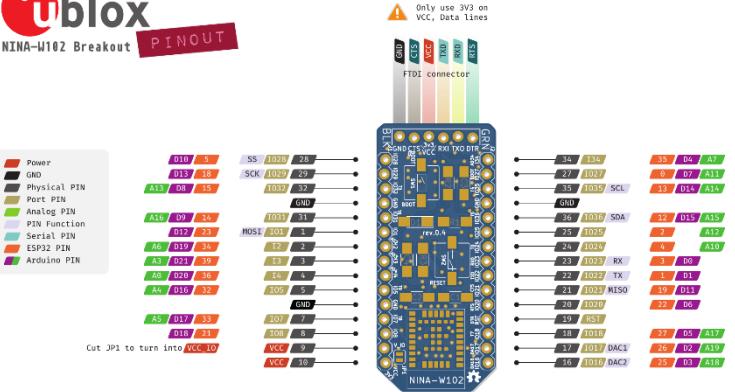
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# SHARING IS CARING



# BADGE



# SPONSORS AND PARTNERS



# COMMUNITY PARTNERS



# MAKE ZURICH TEAM



ALEXANDRA COLLM



CHRISTINA RIEDER



DIRK ZUGENMAIER



ROBERT FEY



LUKAS LIMACHER



BAXTER YAZBEK



THOMAS AMBERG



MURIEL BURI



AFSOON EBRAHIMI



URS MARTI



TILLO BOSSHART



OLEG LAVROVSKY



RETO WICK



SIMON MAURER



MARCO SIEBER



GONZALO CASAS



MICHEL RACIC



MARCUS CATHOMEN



BENNO SEILER



# LET'S DO THIS!





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