

edp IoT hackathon



Microsoft



EDP
STARTER

BizSpark



NARROWNET®
LINKING THINGS

Welcome!



38 participants
in 15 teams



JORGE SIMÕES
HEAD OF DATA LEAP AT EDP INOVAÇÃO



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DIRECTOR AT EDP COMERCIAL



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TECHNOLOGY ANALYST AT EDP INOVAÇÃO



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JASON NADAL
LEAD EVANGELIST AT MICROSOFT PORTUGAL



ENRIQUE ZORZANO
CEO AT NARROWNET

12 mentors

6 members
of the jury

What you are getting into: two weeks of teamwork, including...

Hardware challenges



Software challenges



Presentation to executives



Hacking



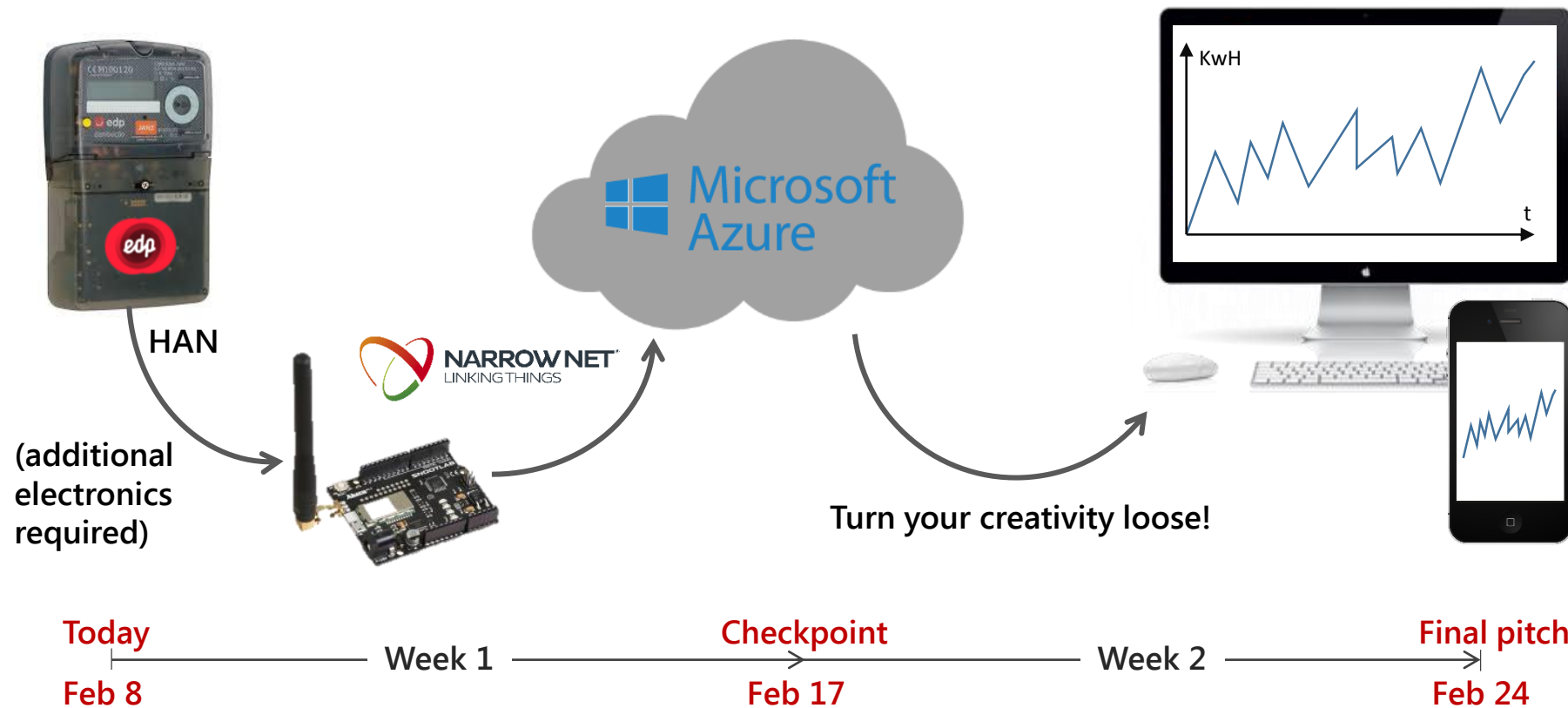
Turning your creativity loose



Lots of fun!

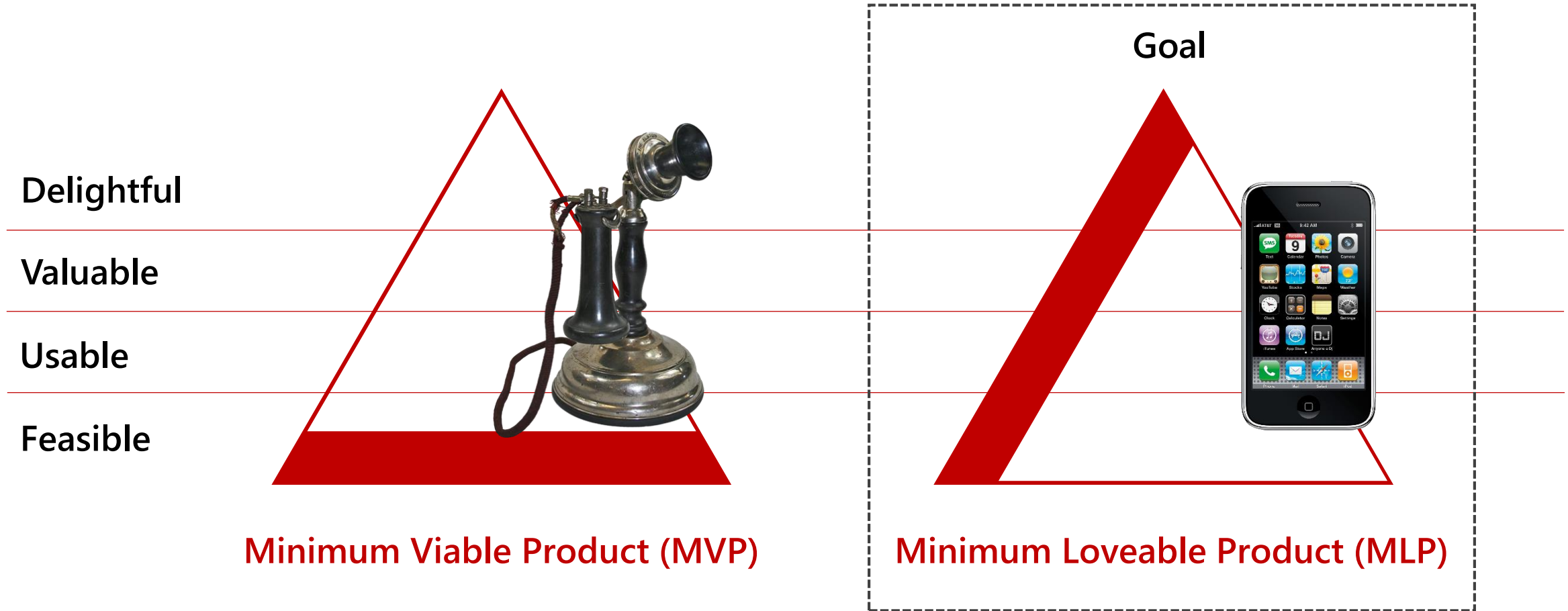


What's the EDP IoT Hackathon all about?



We are looking for the "minimum loveable product" enabling home energy consumption monitoring.

Minimum viable product vs. minimum loveable product



What you are supposed to deliver – week 1

- Your board should be reading values from the EB
- Your board should be powered by the HAN interface
- The data should be reaching Azure via Sigfox

**Minimum
requirements**

Want extra points?

- Build your own shield
- Use your own libraries to build extra functionality
- Read and store extra values adding value to the final product (e.g. maximum daily power used)
- Build a physical enclosure for the product
- Surprise us!

Extra points will be awarded to the teams going from MVP to MLP!
Take advantage of the mentor network to know what features would be valued most.

What you are supposed to deliver – week 2

Minimum requirements

- Live readings from the EB will be visible on the web
 - Load profiles will be transmitted
 - Azure IoT Hub and Stream Analytics will be used to enhance data processing
-
- Build a good-looking smartphone app
 - Compress data to make more effective use of the Sigfox daily allowance
 - Use advanced analytics to show insights from data
 - Delight us!

For extra points...

In the final session you are expected to give a short presentation (5 minutes) describing the full feature set of your product.

How your work will be assessed

- You will be scored for attaining each of the minimum requirements in hardware and software features.
- You will be awarded extra points for additional valuable features.
- Only built and demonstrated features will be awarded points; planned enhancements and future product roadmaps will not be scored.
- The integrated solution (hardware + software) will be evaluated and outstanding products will be granted extra points.
- Your final presentation will also be scored.
- The team with the highest score wins.



Your final pitch – use the power of persuasion!



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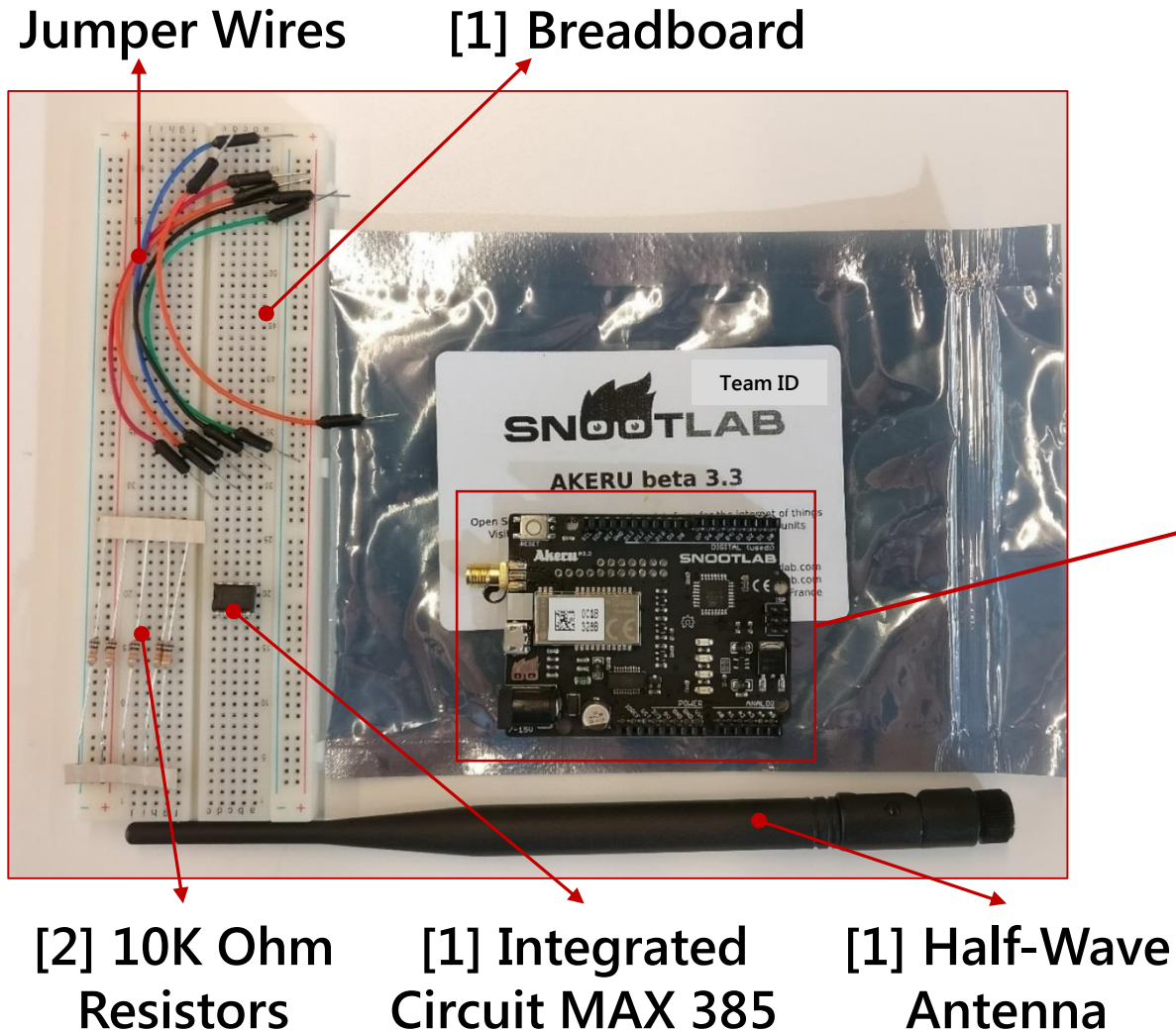


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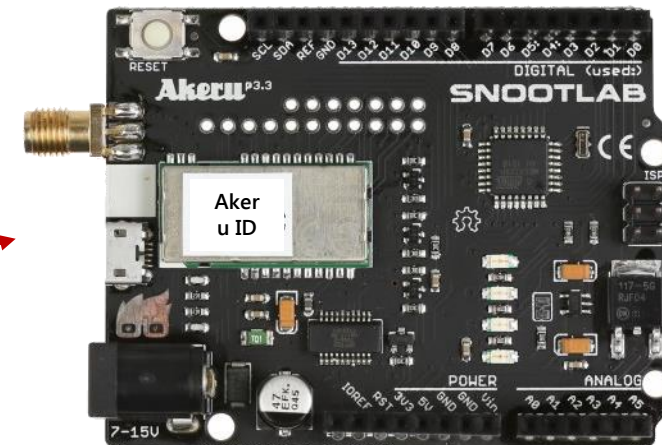


**You will present your product to senior executives from EDP, Microsoft and Narrownet.
Do not underestimate the time it takes to prepare for a powerful pitch!**

Your hackathon kit – shall you accept this mission...



Akeru Beta 3.3



The Akeru Beta 3.3 board is a modified version of an Arduino Uno. You can use all Arduino tools with it.

Not included: Micro-USB to USB cable

Today's onboarding process

1

Get your hackathon hardware kit and make sure it's complete.

2

You will get an email with a link to activate your hardware.

3

You will get an email with a code to enable your Microsoft Azure account.

We will use the email address you provided on sign-up. If you prefer to receive emails on a different address, please let us know when you receive your kit.

Hack central: EDP Starter



**Support will be available onsite at EDP Starter during working hours (8x5).
10 smart meters with HAN plugs are available on a first come, first served basis.**

Essential information resources...

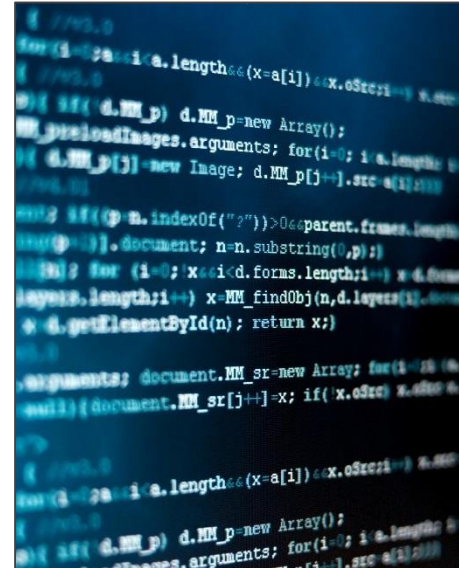
Hackathon
mechanics & logistics



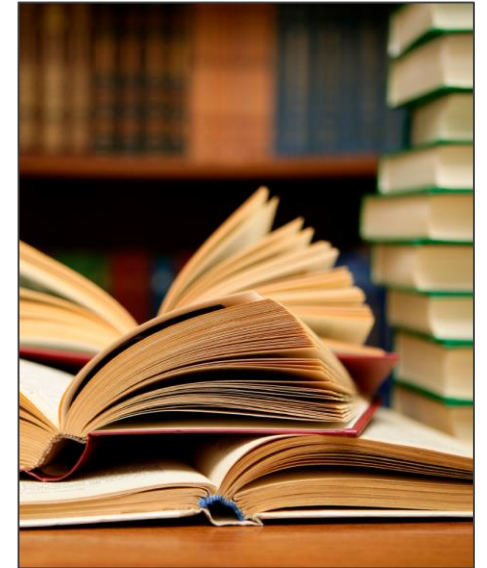
Hardware
documentation



Software libraries
and code examples



Tutorials and extra
resources



<https://github.com/edphackathon/EDPIoTHackathon2017>

It is strongly recommended that you carefully go through the documentation.
All you need to complete the hackathon is available here.

...and a team of mentors ready to help you



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Email edpstarter@edp.pt

It is possible to schedule meetings with mentors. Please describe your need in detail and we will put you in contact with the right mentor at a suitable time.

Security advice

- Don't do this at home! Use the smart meters at EDP Starter ONLY.
- Remember you are working with electrical and electronic equipment – protect yourself from electric shocks.
- Use only one feeding power source at a time.
- There will be no replacement Akeru boards provided in case of damage such as current overload; Take good care of your materials.



Don't **FORGET**
TO BE
AWESOME.

Good luck!



Microsoft



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