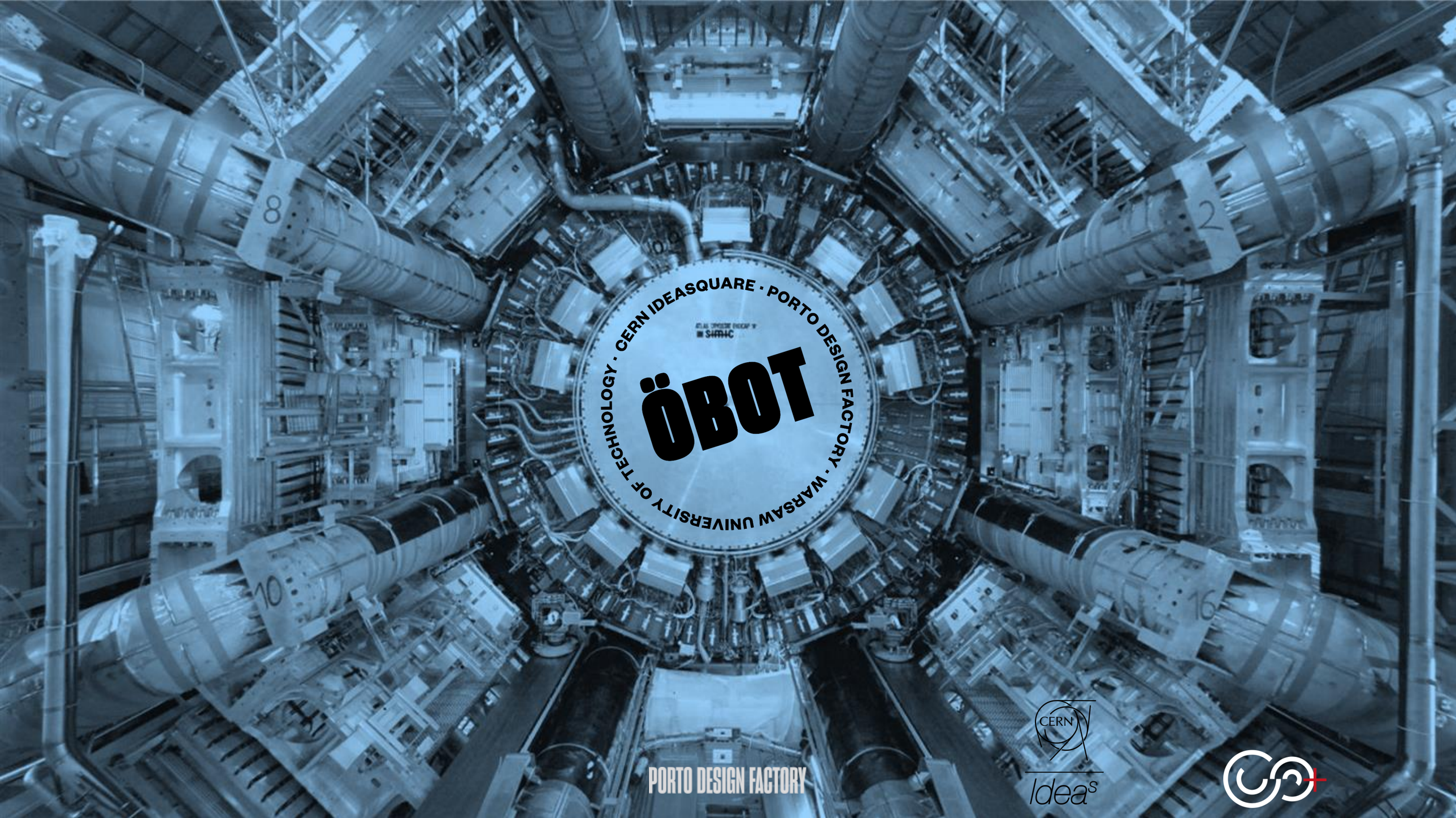
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CFP

Critical Functional Prototype

PORTO DESIGN FACTORY

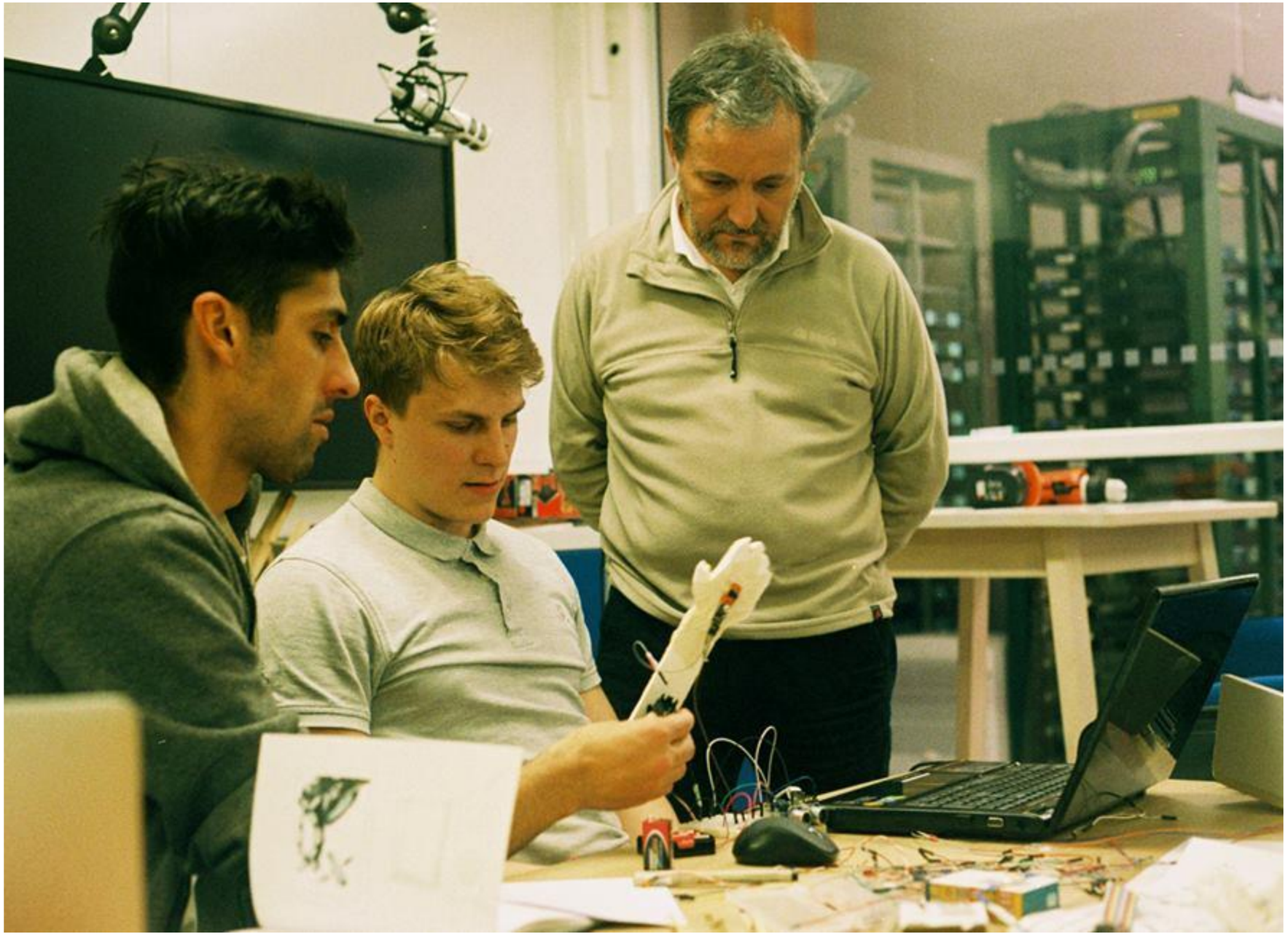
WHAT DO WE EXPECT FROM YOU?

#01 Design, build, test and demonstrate a component or subsystem that is “critical” to the success of your öBot

#02 Present your prototype, your tests and results

#03 Explain how this new information has influenced your thinking

#04 **NO powerpoints!**



PORTO DESIGN FACTORY

CEP

Critical

- Something **fundamental and necessary** to the success of the design.
- If this component were to fail, another approach would be needed.
- In other words: the piece you are most worried about.

CEP

Functional

- Something **fundamental and necessary** to the success of the design.
- What the element, piece or subsystem **must do** (<u>not what it is or what it must be</u>)
- Identify the function and the parameters of success

CEP

PROTOTYPE

- Something **physical** (not a calculation, research or modulations).
- It allows you to perform ***real tests*** and obtain useful results.
- It does not necessarily reflect the final design.

CFP

The CFP is a **physical product or service provision system** that, in the form of a prototype, allows users to test a given function or component.

PORTO DESIGN FACTORY

CFP

CFP prototypes are **neither final nor comprehensive**, but instead propose individual pieces of wider potential solution as testable and as quickly as possible.

CRITICAL FUNCTIONS

SHOULD BE...

#01 **Simple**

Low quality prototype is enough to understand concepts

#02 Individual

Should restrict a singular function or component

#03 Tangible

Produce many prototypes instead of one finalized version.

The more tangible prototypes the better!

#04 Fast

Look for the shortest way to express your ideas

PORTO DESIGN FACTORY

HOW TO START?

#01 **Make it up**

According to your storytelling lock what is crucial to start your robot concept

#02 Make it real

Define **What it needs to do!** – Traits to express the emotions

#03 Make it happen

With the material you gathered, assembly the **“software” with the “hardware”**

PORTO DESIGN FACTORY

BLES

DEADLINE 7.30PM

5 minutes presentation

NO slides

Record the presentation and upload
In the öBot Bootcamp 2018 facebook group

Be prepared to **comment other teams work**.

PORTO DESIGN FACTORY

BLES

CONTENT

Report your selected **function, testing parameters and TEST RESULTS** (Numeric data) and your **conclusions.**

BLES

CONTENT

Present a **vision** for the future and plan for **next steps.**

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