

# Objective

The **z-fact0r solution** comprises the introduction of five multi-stage production-based strategies targeting (i) the early detection of the defect (**z-DETECT**), (ii) the prediction of the defect generation (**z-PREDICT**), (iii) the prevention of defect generation by recalibrating the production line (multi-stage), as well as defect propagation in later stages of the production (**z-PREVENT**), (iv) the reworking/ remanufacturing of the product, if this is possible, using additive and subtractive manufacturing techniques (**z-REPAIR**) and (v) the management of the aforementioned strategies through event modeling, key performance indicators monitoring and real-time decision support (**z-MANAGE**).

# Partners

The z-fact0r Project involves a total of **thirteen** (13) **EU-based partners**, representing both industry and academia. They have ample experience in cutting-edge technologies and active presence in the EU manufacturing.



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**CETRI**  
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European  
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Horizon 2020  
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for Research & Innovation



*Zero-defect manufacturing  
strategies towards on-line  
production management for  
European factories*

<http://www.z-fact0r.eu>



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"This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723906"

# Project Overview



The z-fact0r project lasts 42 months (2016-10-01 to 2020-03-31) and is divided into four phases.

**Phase 1: Technology generation and experimentation.** It includes R&D activities for the development of z-fact0r subsystems and tests on technologies in laboratories.

**Phase 2: Integration and validation of the technologies.** The aim is to prepare the system for its validation as a full and integrated prototype.

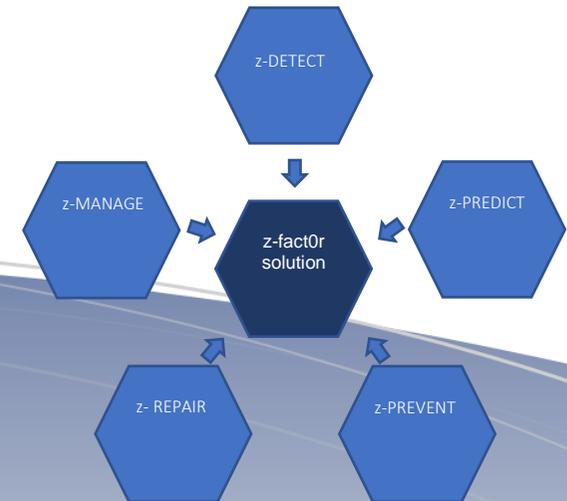
**Phase 3: Demonstration of the z-Fact0r results** in the use-cases. The aim is to complete a z-fact0r prototype demonstration in the operating environments (TRL7).

**Phase 4: Project Management and Dissemination, Exploitation, and Communication Activities** that run during the whole duration of the project.

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Basic elements of z-fact0r



z-fact0r Project involves **thirteen EU-based partners** with ample experience in cutting-edge technologies and active presence in the EU manufacturing. They come from several European countries



**Next z-fact0r  
WORKSHOPS in 2019  
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