Objective

Manufacturing represents approximately 21% of the EU’s GDP and 20% of its employment, providing more than 30 million jobs in 230,000 enterprises, mostly SMEs. Moreover, each job in industry is considered to be linked to two more in related services. European manufacturing is also a dominant element in international trade, leading the world in areas such as automotive, machinery and agricultural engineering. Already threatened by both the lower-wage economies and other high-tech rivals, the situation of EU companies was even made more difficult by the downturn.

The Z-Fact0r consortium has conducted an extensive state-of-the-art research (see section 1.4) and realised that although a number of activities (see section 1.3) have been trying to address the need for zero-defect manufacturing, still there is a vast business opportunity for innovative, high-ROI (Return on Investment) solutions to
Business opportunity for innovative, high-ROI (Return on Investment) solutions to ensure, better quality and higher productivity in the European manufacturing industries.

The Z-Fact0r solution comprises the introduction of five (5) 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 modelling, KPI (key performance indicators) monitoring and real-time decision support (Z-MANAGE).

To do that we have brought together a total of thirteen (13) EU-based partners, representing both industry and academia, having ample experience in cutting-edge technologies and active presence in the EU manufacturing.

**Field of science**

/social sciences/economics and business/business and management/commerce
/engineering and technology/mechanical engineering/manufacturing engineering/subtractive manufacturing
/social sciences/economics and business
/social sciences/economics and business/business and management/employment
/social sciences/sociology/governance/public services
/social sciences/economics and business/economics/production economics/productivity

**Programme(s)**

**Topic(s)**

**Call for proposal**

H2020-FOF-2016

**Funding Scheme**

IA - Innovation action

**Coordinator**

ETHNIKO KENTRO FREYNASH KAI TECHNOLOGIKIS ANARTVYIS
<table>
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<tr>
<th>Address</th>
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<th>EU contribution</th>
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<td>Charilaou Thermi Road 6 Km 57001 Thermi Thessaloniki, Greece</td>
<td>Research Organisations</td>
<td>€ 627 500</td>
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<td>Cyprus</td>
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<td>€ 494 375</td>
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<td>77, John Kennedy Avenue 1077 Nicosia</td>
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<td>Antoni Tritsi 21 55102 Thessaloniki</td>
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<td>United Kingdom</td>
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<td>€ 717 757,50</td>
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<tr>
<td>Kingston Lane UB8 3PH Uxbridge</td>
<td>Higher or Secondary Education Establishments</td>
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Participants (13)
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<th>Country</th>
<th>EU Contribution</th>
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<th>Activity Type</th>
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<tr>
<td>ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE</td>
<td>Switzerland</td>
<td>€ 0</td>
<td>Batiment Ce 3316 Station 1 1015 Lausanne</td>
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<td>HOLONIX SRL</td>
<td>Italy</td>
<td>€ 339 500</td>
<td>Corso Italia 8 20821 Meda (Mb)</td>
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<td>DATAPIXEL SL</td>
<td>Spain</td>
<td>€ 266 875</td>
<td>Carretera Asua 6 48930 Getxo</td>
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<td>MICROCHIP TECHNOLOGY CALDICOT LIMITED</td>
<td>United Kingdom</td>
<td>€ 187 880</td>
<td>Phase 2 Castlegate Business Park NP26 5YW Gwent</td>
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**INTERSEALS SRL**

- **Italy**
- **EU contribution**: € 16 388,50
- **Address**: Via Liguria 30, 25031 Capriolo
- **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)

**SERVIZI CONFINDUSTRIA BERGAMO SRL**

- **Italy**
- **EU contribution**: € 127 750
- **Address**: Via Clara Maffei 3, 24121 Bergamo
- **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)

**INOVA+ - INNOVATION SERVICES, SA**

- **Portugal**
- **EU contribution**: € 188 562,50
- **Address**: Rua Dr Afonso Cordeiro 567, 4450-309 Matosinhos
- **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)

**SIR SPA**

- **Italy**
- **EU contribution**: € 440 125

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Contact the organisation [🔗]
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Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

WEBSITE

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Activity type
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(excluding Higher or Secondary Education Establishments)

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EU contribution
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48230 Elorrio

Activity type
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(excluding Higher or Secondary Education Establishments)

CONTACT THE ORGANISATION

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