

**CETMA**

*Giornata Airi per l'Innovazione industriale*

*Premio Oscar Masi per l'Innovazione Industriale - Tecnologie abilitanti e soluzioni innovative per la città sostenibile.*

**South Italy**  
Cittadella della Ricerca - Brindisi

**70 Employees**  
Researcher, engineers, designers & managers

**4.000 m<sup>2</sup> Laboratories and Offices**  
Advanced materials and testing machine  
Virtual Reality Center in Europe  
Prototyping laboratory with professional printers





1994-2017  
Total Incoming

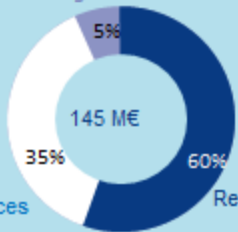
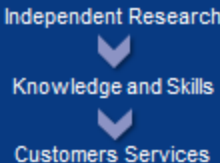

145 M€

60% Research Project  
35% Services  
5% Training

Independent Research  
↓  
Knowledge and Skills  
↓  
Customers Services

Production 2017:  
6,3 M €

Material Suppliers  
University Accademy  
Equipment Suppliers  
Industrial User

**CETMA**

**MATERIALS**





- Composite Materials
- Chemistry and process
- Validation and Testing

**INFORMATICS**

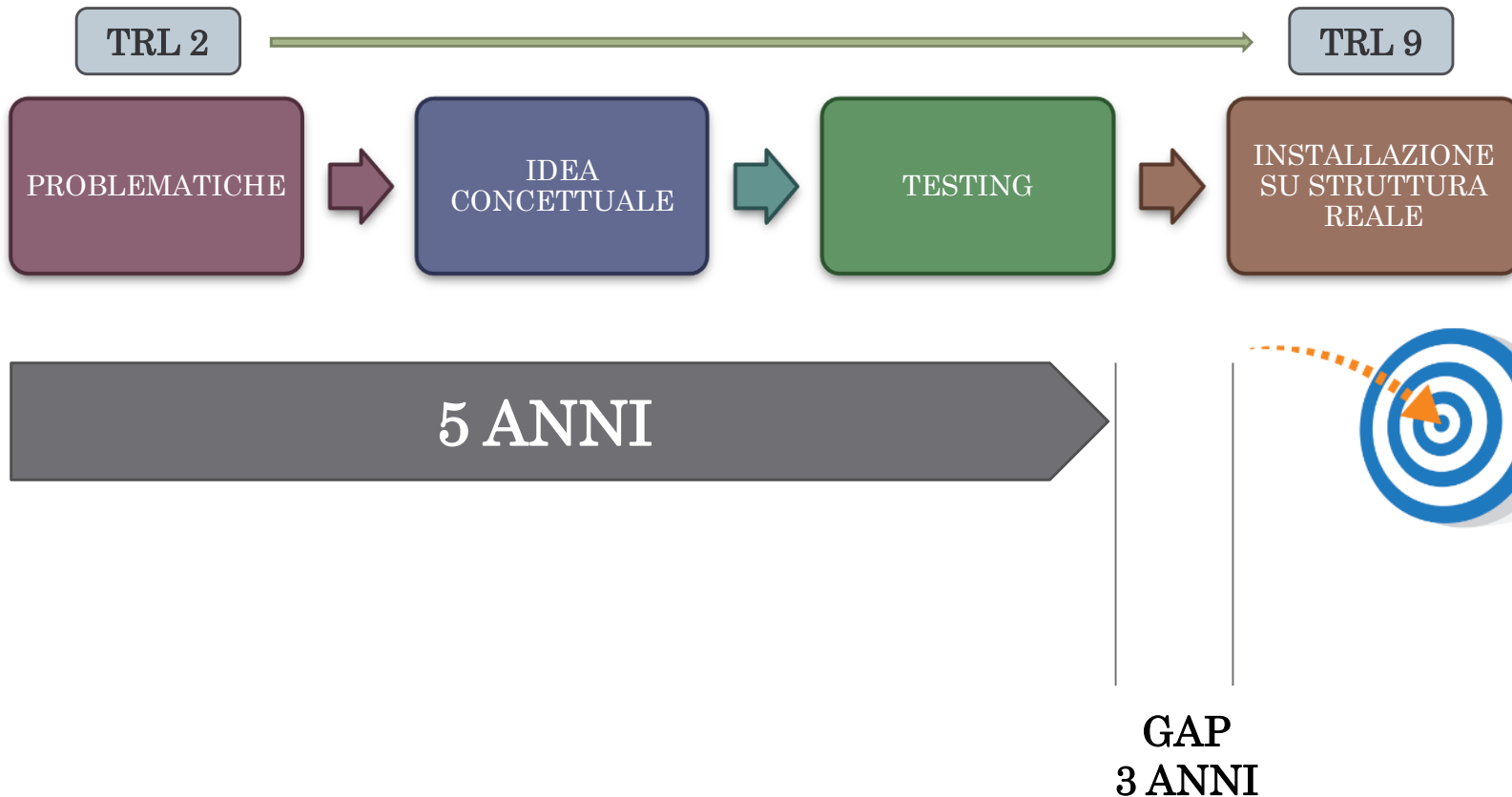
- Software development
- Automation and Control
- VR and New media

**DESIGN**

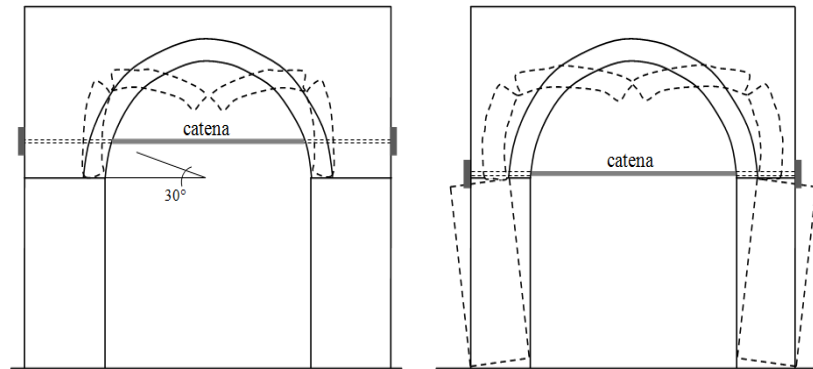
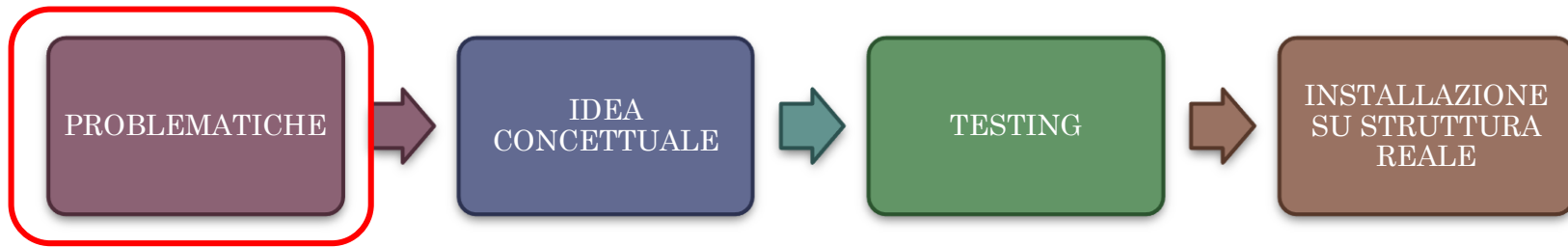
- Design management
- Product development
- Engineering+Prototyping

# PERCORSO DI INNOVAZIONE

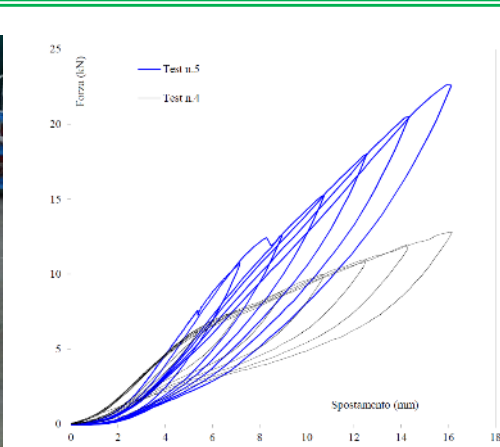
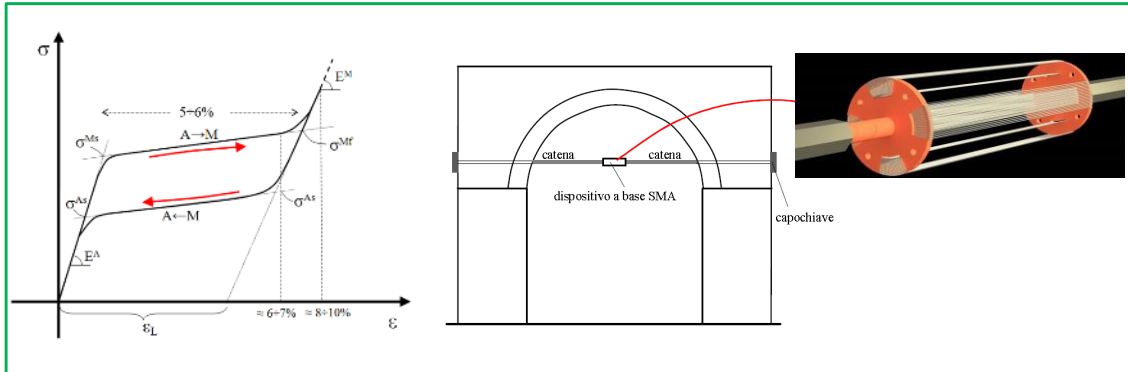
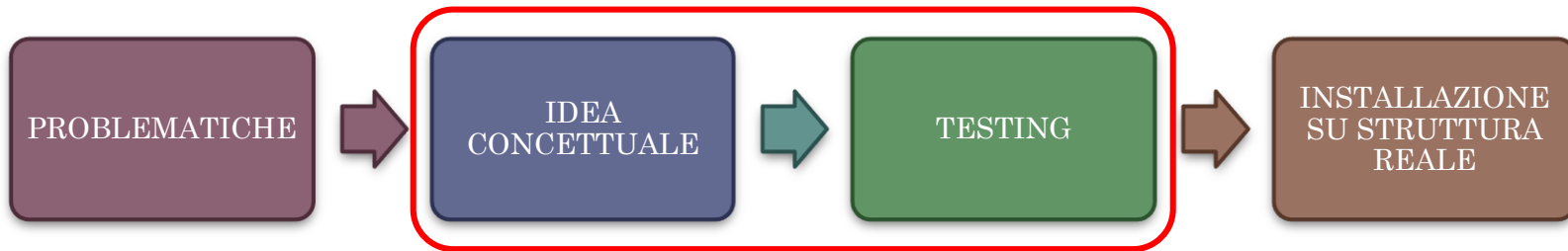


# PERCORSO DI INNOVAZIONE



- Variazione della forza sotto sisma
- Nessuna dissipazione
- Calibrazione complessa
- Dilatazioni termiche

# PERCORSO DI INNOVAZIONE

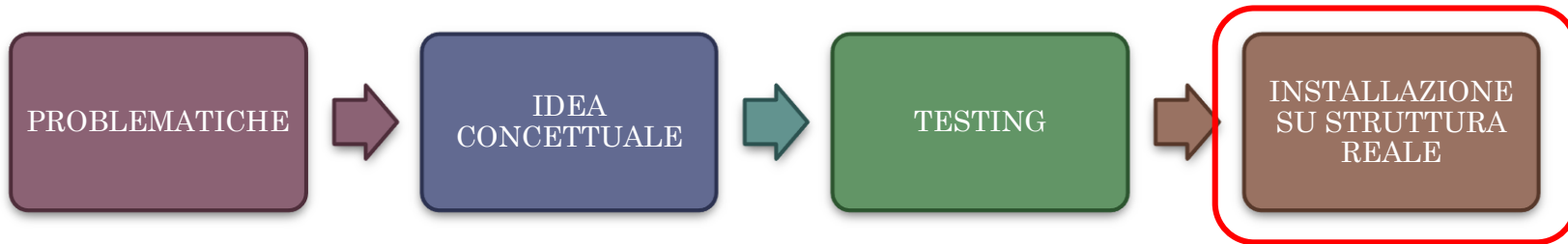


CONCEPT



DISPOSITIVI ANTISISMICI A BASE DI LEGHE A MEMORIA DI FORMA (SMA)

# PERCORSO DI INNOVAZIONE



Brevetto P 2450506 -  
System including a shape-  
memory alloy device

(19) (11) EP 2 450 506 B1

(12) EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mention of the grant of the patent: 04.01.2017 *Bulletin* 2017/01

(51) Int. Cl.: E04H 8/02 (2006.01)

(21) Application number: 11008881.2

(22) Date of filing: 08.11.2011

(54) System including a shape-memory alloy device  
System umfassend eine Formgedächtnislegierung-Vorrichtung  
Système incluant un dispositif doté d'un alliage à mémoire de forme

(84) Designated Contracting States:  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

(30) Priority: 09.11.2010 IT BA20100045

(43) Date of publication of application: 09.05.2012 *Bulletin* 2012/19

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(56) References cited:  
EP-A2-1 916 765 WO-A1-96/27055  
WO-A1-96/57014



# Grazie per l'attenzione



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