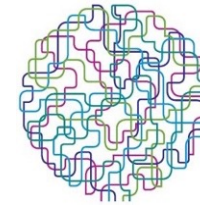


TM Profs
Mehmet Sinan Senel
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This presentation is for

- Workshop 1** Big Data
 - Workshop 3** Photonics and Micro-and-Nanoelectronics
 - Workshop 2** Robotics
 - Workshop 4** internet of Things
-

Description of the Organization



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- TM Profs is an engineering company located in Eindhoven/ the Netherlands.
- Working for technology orientated projects with **highly skilled engineers**.
- Three expertise areas:
 - **Mechanical engineering** (Precision engineering, mechanical design with CAD & CAE)
 - **Electronics Engineering** (Power electronics, Embedded systems)
 - **Mechatronics engineering** (Control architecture & SW, Model Based Development)

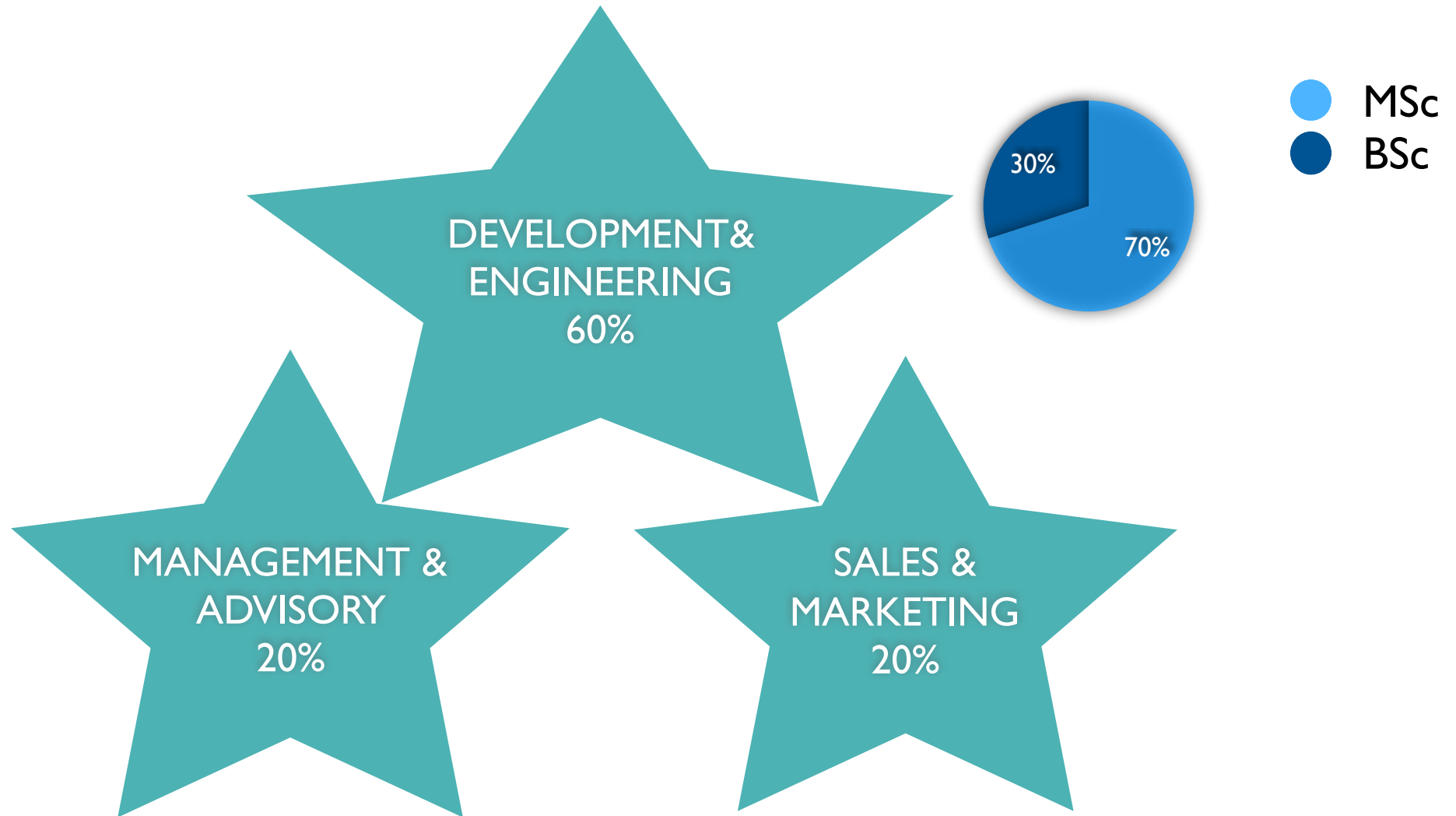
EU Experience

- We have an ongoing EU project proposal application for photonics together with partners from NL and TR.

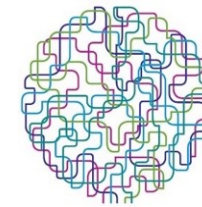
Description of your research interest



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Description of your research interest



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Development Projects

Control systems development for powertrain;
Mechanical design of packaging & processing equipment;
Mechatronics design for high-tech processing machines;
Mechanical & mechatronics design of optical components;

New Business
opportunities

Rapid (Control) Prototyping

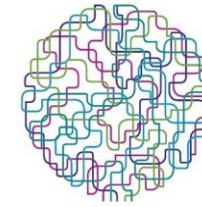
Smart Factories

Electric driving

Photonics & optics

ICT-30-2017 (RIA) Photonics KET 2017

PIEZOELECTRIC ACTUATORS for ASSEMBLY of PHOTONICS PACKAGING

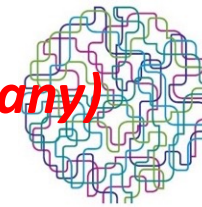


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- Objectives:
 - to develop a piezo-driven system for assembly of photonics packaging
 - to investigate the required piezo material properties specific to this application and research for the optimum composition/manufacturing of piezo material.

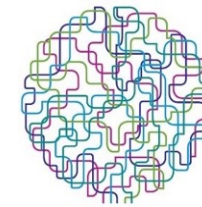
- Expected results
 - Affordable and application specific piezo-material
 - Working prototype of piezo actuators to be integrated into the assembly process equipment

Consortium - profile of known partners *(if any)*



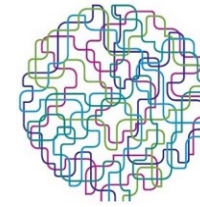
No	Partner Name	Type	Country	Role in the Project
01	TM Profs	SME	NL	System specifications, research and development activities for piezo-driven system
02	VTEC	SME	NL	Defining system specifications for packaging application
03	TU Eindhoven/Delft/ Twente	RTD	NL	Specifications for material properties and piezo-control design
04				
05				
06				
07				
08				

Consortium - required partners



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No	Expertise	Type	Country	Role in the project
01	Research in Materials	RTD		Specifications for material properties and composition
02	Optical packaging manufacturer	SME/ IND		Defining manufacturing requirements for packaging applications
03	Piezo manufacturer	SME/ IND		Piezo material manufacturing and prototyping
04				
05				
06				
07				
08				



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