

Potential R&D Cooperation Activities Between the Surface Engineering Laboratory at the National Aerospace University “KhAI” and Universities forming the 159359-ES-JPHES UNI4INNO project Consortia.



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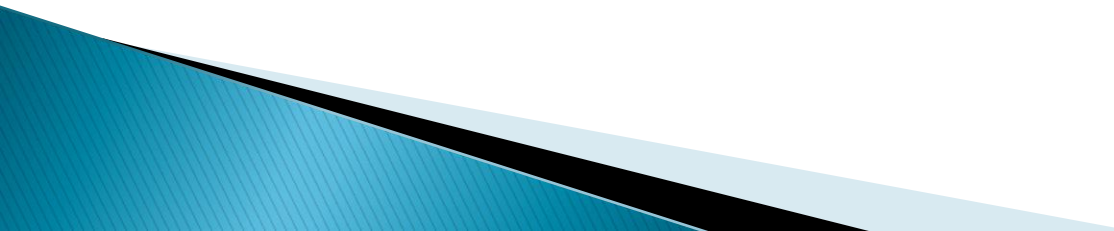


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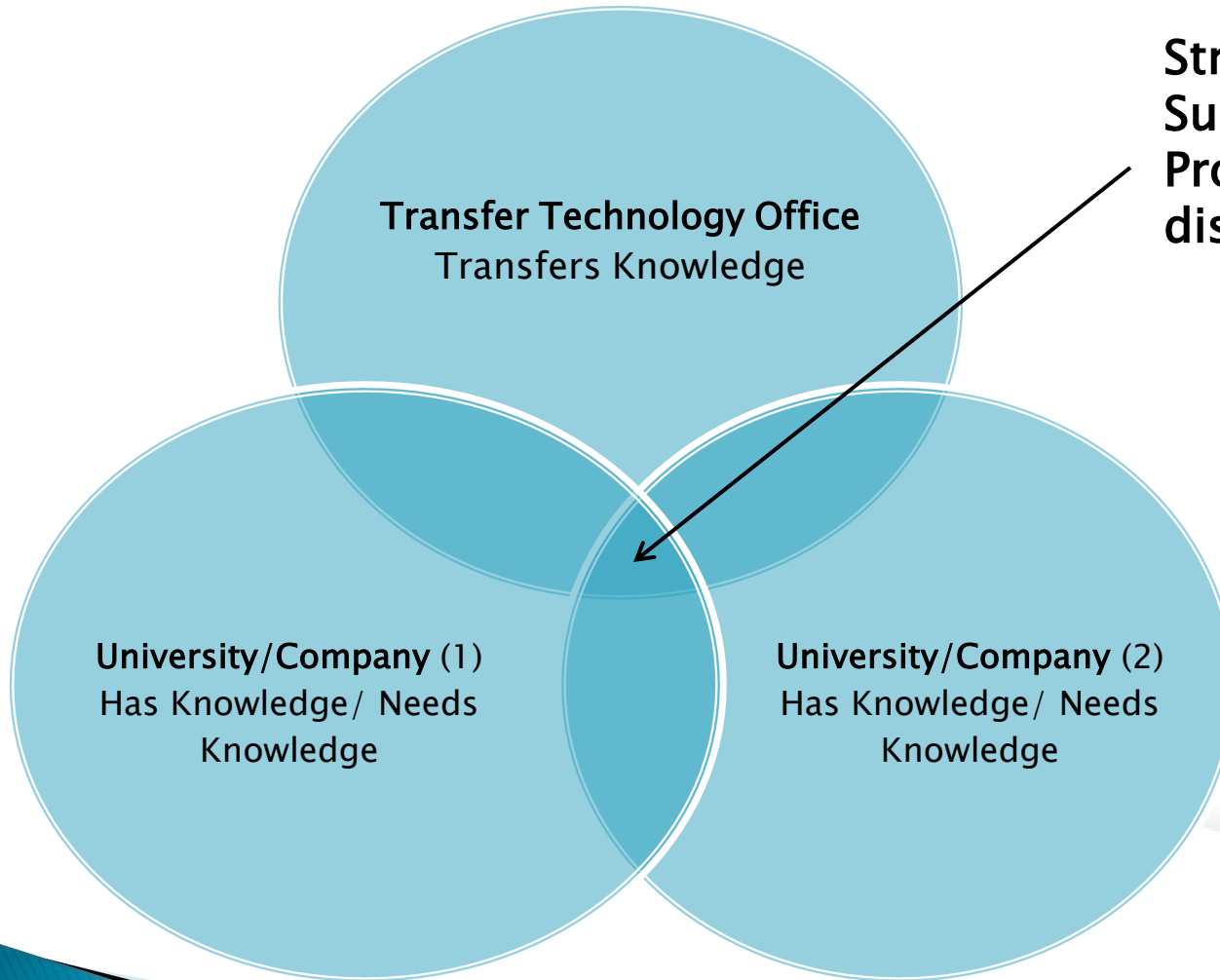
Технология производства
авиационных двигателей

National Aerospace University, KhAI
Kharkiv, Ukraine

Outline

- ▶ Motivation
 - ▶ Research at the Surface Engineering Laboratory
 - ▶ Technical Matchmaking within the Consortia
 - ▶ Conclusions
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Motivation



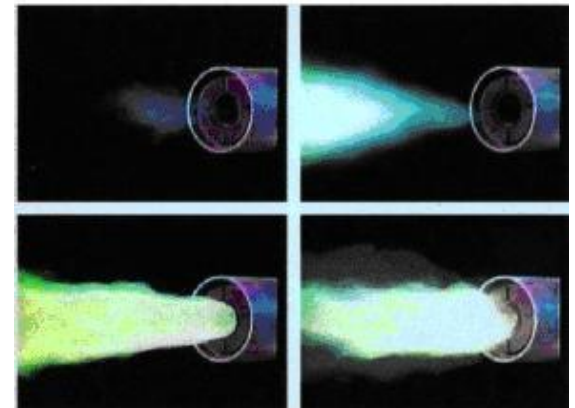
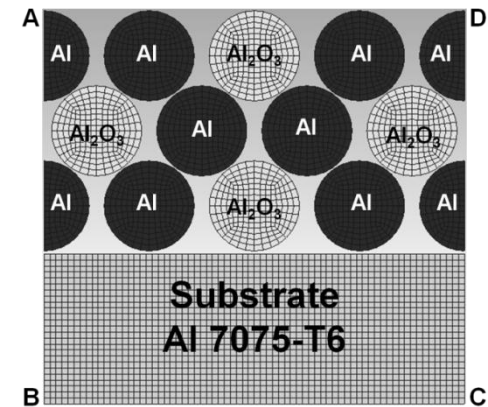
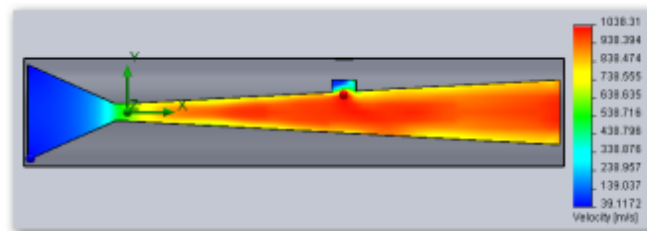
Strategic and Sustainable Innovation Projects for successful disseminations.



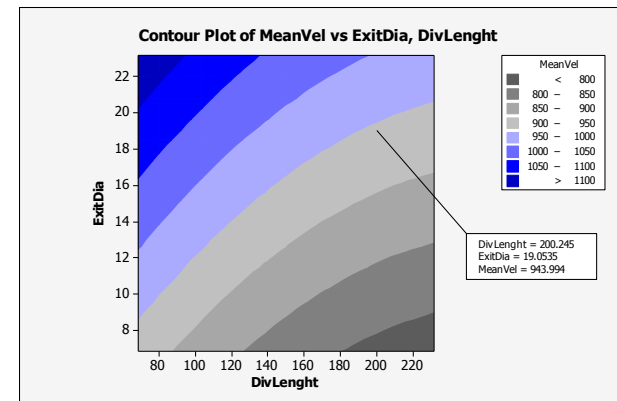
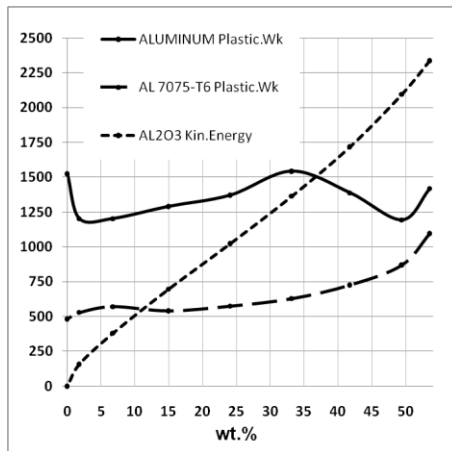
Research at the Surface Engineering Laboratory

The Research is mainly focused towards:

- ▶ Thermal Spraying
 - Detonation Gun Spraying
 - HVOF – High Velocity Oxy Fuel
 - Cold Spraying
- ▶ Nano-Powders Production



- ▶ Application of Corrosion and Wear Resistance Coatings at High and Low Temperatures
- ▶ Application of Metal/ Ceramic Composite Coatings at low temperatures
- ▶ Nano-Powder Production
- ▶ Application of Bio-ceramic Composites at Low Temperatures

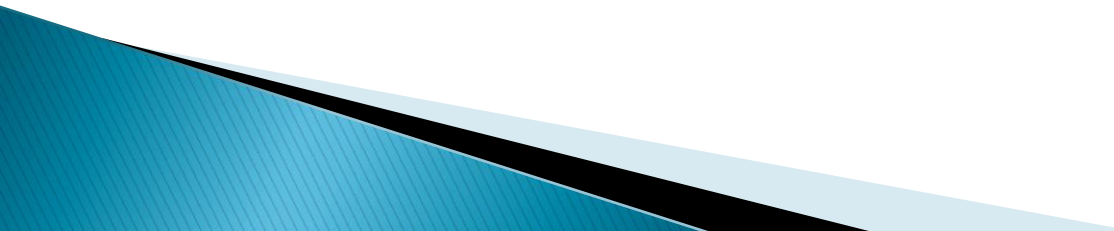


Technical Matchmaking within the Consortia

- ▶ **UNIVERSITY OF ALICANTE (Spain) – UAli**
 - Advanced Materials Laboratory
 - Investigation on Ceramic/Carbon, Metal/Ceramic and Metal Composites
- ▶ **CHALMERS UNIVERSITY (Sweden) – CU**
 - Materials and Manufacturing Technology Department
 - Surface and Microstructure Engineering (Nanomaterials, Coatings and Structural Materials)
- ▶ **UNIVERSITY OF BOLOGNA (Italy) – Unibo**
 - Mechanical, Nuclear, Aviation and Metallurgical Engineering –DIEM
 - Biomechanics (Traditional and Innovative Biomaterials)
- ▶ **DONBASS STATE MACHINE BUILDING ACADEMY, UA – DMA**
 - Materials Department

- ▶ **NATIONAL METALLURGICAL ACADEMY OF UKRAINE, UA – NMAU**
 - Faculty of Manufacturing
 - ▶ **ODESSA NATIONAL MECHNIKOV UNIVERSITY, UA – ONMU**
 - Scientific Research Laboratory on High Temperature Process in Disperse Systems
 - ▶ **CRIMEAN UNIVERSITY (Ukraine), CUH**
 - Manufacturing and Materials Department
 - ▶ **LVIV POLITECNIC NATIONAL UNIVERSITY, (Ukraine) – LPNU**
 - Manufacturing and Materials Department
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Conclusions

- ▶ The universities within the consortia have many opportunities to work in cooperation projects and to succeed in knowledge transfer operations because their matching research areas. This will Boost the Knowledge triangle between Innovation Offices in Ukrainian and European HEIs.
 - ▶ It is important that the Technology Transfer Offices from each university promote the FP7 platforms between all the Research Departments of the University to make the knowledge transfer happen.
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THANK YOU

GRACIAS
ARIGATO
SHUKURIA

DANKSCHEEN
TASHAKKUR ATU
YAQHANYELAY
SUKSAMA
EKHMET
BIYAN
SHUKRIA
TINGKI

JUSPAXAR
GOZAIMASHITA
EFCHARISTO
KOMAPSUMNIDA
MAAKE
LAH
GRAZIE
MEHRBANI
PALDIES
BOLZIN
MERCY

SPASIBO
SNACHALUYA
HURUH
CHALTU
MADEEJA
MAYEKA
YUSPACBAYAM
MADEEJA
MAYEKA
HURUH
UNACHIEESH
SPASIBO
DENKAU-JA
HEMACHALUYA
UNACHIEESH
HATER
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ENOUJ
SINDMO
MAKETAZ
MINMOHCHAR

