Best practices in inter-university cooperation, with emphasis on multilateral projects

Assoc. Prof. Nikola Mišković,

Vice Dean for Research

www.fer.unizg.hr

UNIVERSITY OF ZAGREB
FACULTY OF ELECTRICAL ENGINEERING AND COMPUTING

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Pravni fakultet Sveučilišta u Zagrebu
Faculty of Humanities and Social Sciences...
Kineziološki fakultet
Agronomski fakultet
Šumarski fakultet
Ekonomski fakultet Zagreb
Veterinarski fakultet
Fakultet kemijskog inženjerstva i tehnologije
Prehrambeno - Biotehnološki fakultet
Sveučilište u Zagrebu | Arhitektonski fakultet |...
Zagreb
Maksimir
Park Maksimir
Zagrebačka avenija
Slavonska avenija
Radnička cesta
Jadranska avenija
Avenija Dubrovnik
Sava
Arena Zagreb
Arena Centar
Sportski park Mladost
Golf & Country Club Zagreb
Zoološki vrt Zagreb
KBC Zagreb
Institut Ruđer Bošković
Klinička bolnica "Sestre Milosrdnice"
Psihijatrijska bolnica Vrapče
Kaptol
Crkva sv. Marka
Esplanade Zagreb
Autobusni kolodvor Zagreb
Park Bundek
Muzej suvremene Zagrebački Velesajam umjetnosti Zagreb
Ilica ul.
Vlaška ul.
Ul. kneza Branimira
Ul. Grada Vukovara
Savska cesta
Avenija Marina Držića
Avenija Većeslava Holjevca
Maksimirska cesta
Avenija Dubrava
Jarun
Trnjanski nasip
Prisavlje ul.
Cvjetna aleja
Aleja Matije Ljubeka
Ul. Joszefa Antalla
Ul. Damira Tomljanovića
Ukrajinska ul.
Islandska ul.
Vatikanska ul.
Sortina ul.
Aleja pomoraca
Sajmišna cesta
Savska
Trnsko
Sopot
Siget
Laniste
Jarunska ul.
Bencekovićeva ul.
Prekrižna ul.
Trokut XV
Remetinečka cesta
Karlovačka cesta
Utinjska ul.
Zdihovska ul.
Jaruscica
Kajzerica
Zaprude
Dugave
Blato
Gornja Dubrava
Mo Ljubljanica
Trnava I
Trnava II
Ul. Revnice XI
Ul. kralja Zvonimira
Borongajska cesta
Ul. Marijana Čavića
Ul. Grada Gospića
Radnički put II
Kozari put I
Koledovčina ul.
Lovinčićeva ul.
Rapska ul.
Gavellina ul.
Lekenička ul.
Velikogoričke ul.
Žerjavićeva ul.
Mičevečka ul.
Ul. Sevica I
Ul. Gustava Krkleca
Ul. Ivane Brlić Mažuranić
Ul. Antuna Šoljana
Baštijanova ul.
Ul. Draginina Golika
Ul. Dominika Mandića
Ul. Rudolfa I
Ul. Ante Šercera
Ul. Nike Grškovića
Ul. Banitarski jarak
Ul. Rebar I
Ul. Knežnog puta
Ul. Vladimira Nazora
Ul. Ivana Gorana Kovačića
Ul. Ivana Meštrovića
Ul. Ivana Lučića
Ul. Ivana Supila
Ul. Ivana Zajca
Ul. Ivana Kukuljevića
Ul. Ivana Tkalčića
Ul. Ivana Mažuranića
Ul. Ivana Gundulića
Ul. Ivana Trnskog
Ul. Ivana Rabljanina
Ul. Ivana Pavla II
Ul. Ivana Milutinovića
Ul. Ivana Kukuljevića
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Ul. Ivana Rabljanina
Ul. Ivana Pavla II
Ul. Ivana Milutinovića

UNIVERSITAS STUDIORUM ZAGRABIENSIS
MDCLXIX
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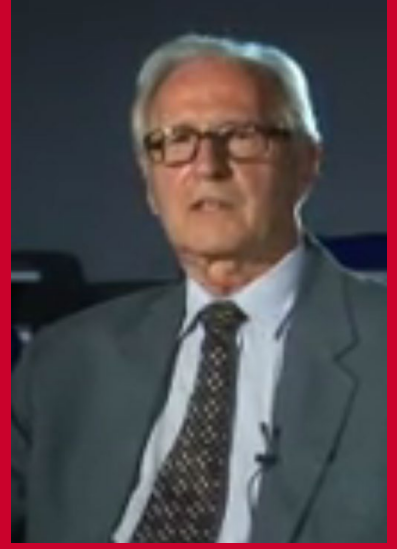
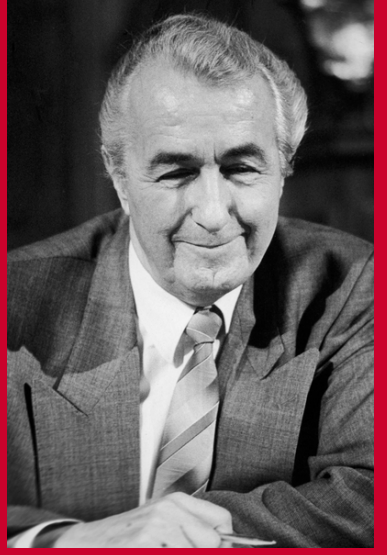
SVEUČILIŠTE U ZAGREBU
FAKULTET
ELEKTROTEHNIKE
I RAČUNARSTVA

RENOWNED ALUMNI



Uroš Peruško
Minister of Science & Technology,
Croatia, Yugoslavia



Ante Marković
Prime Minister of Croatia
Prime Minister of Yugoslavia

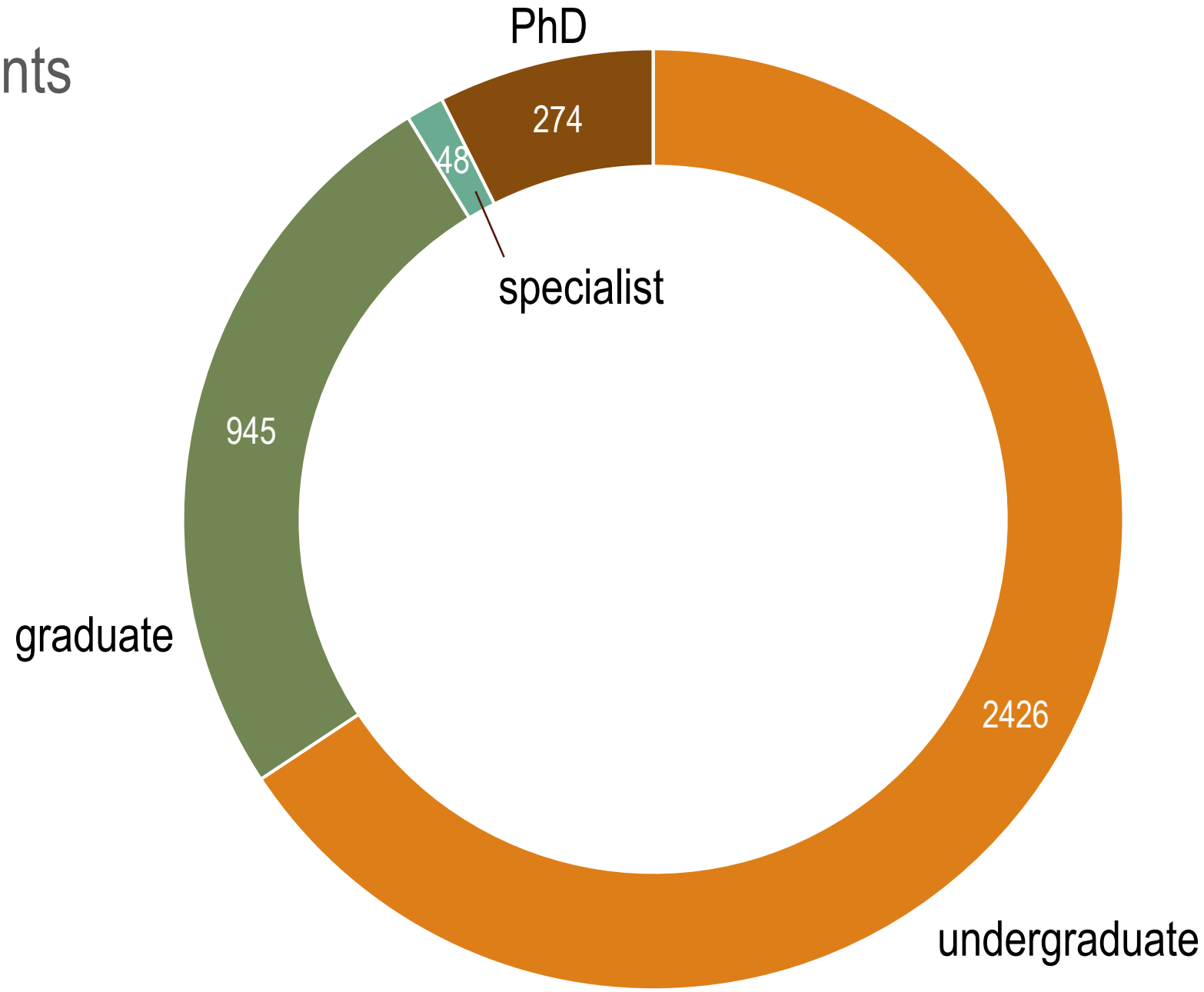
Božo Udovičić
Minister of Industry

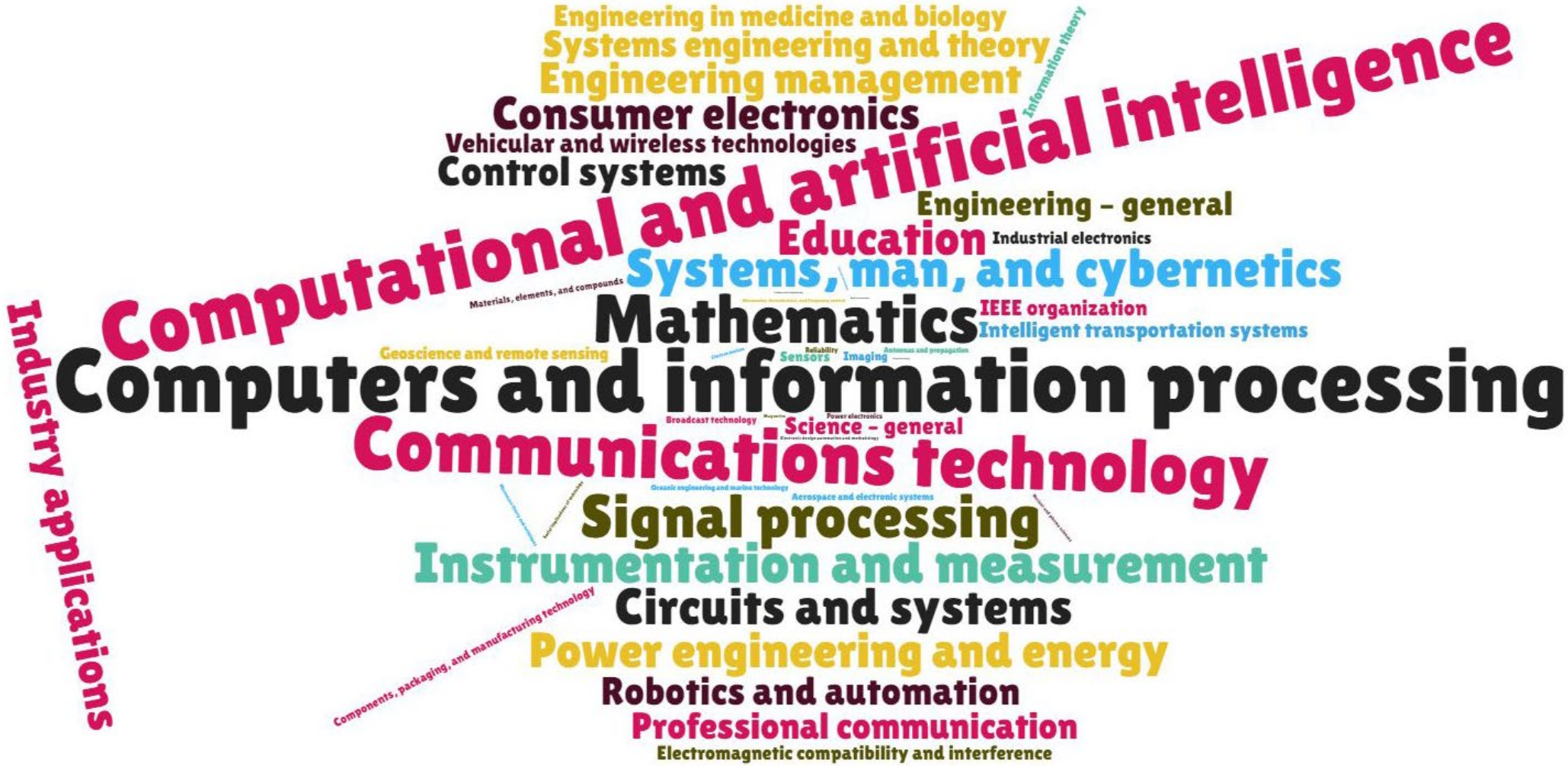
Branko Jeren
Minister of Science and Technology
Rector of Zagreb University

Vedran Mornar
Minister of Science,
Education and Sport

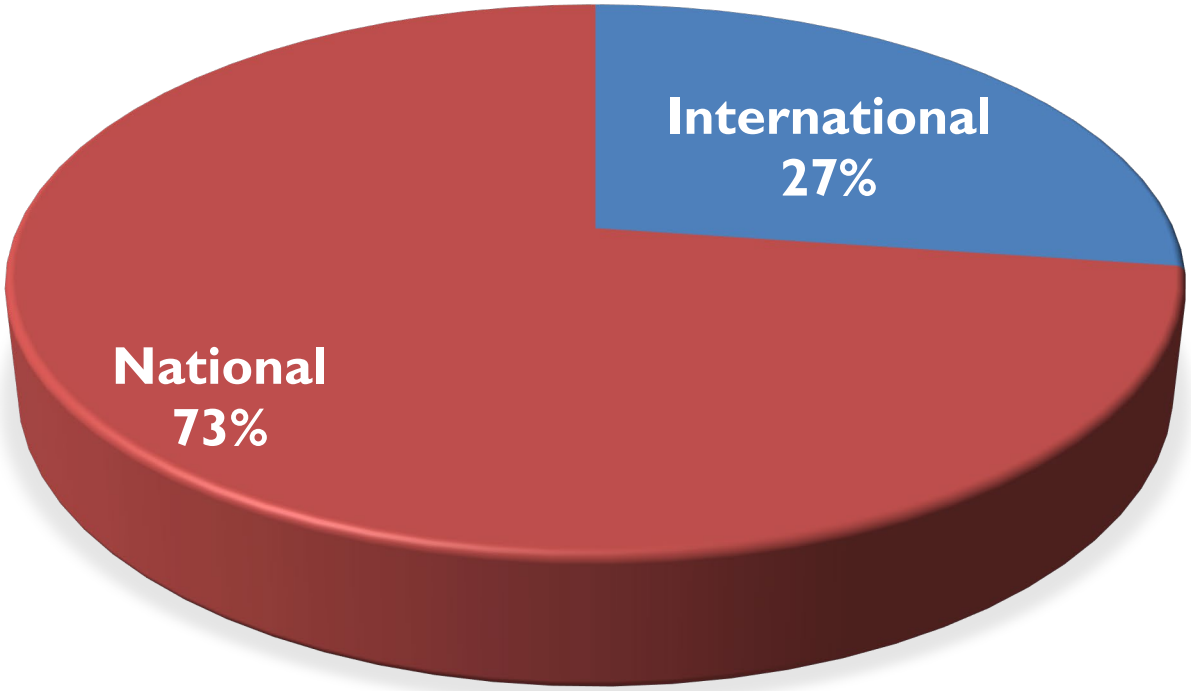
Damir Boras
Rector of Zagreb University

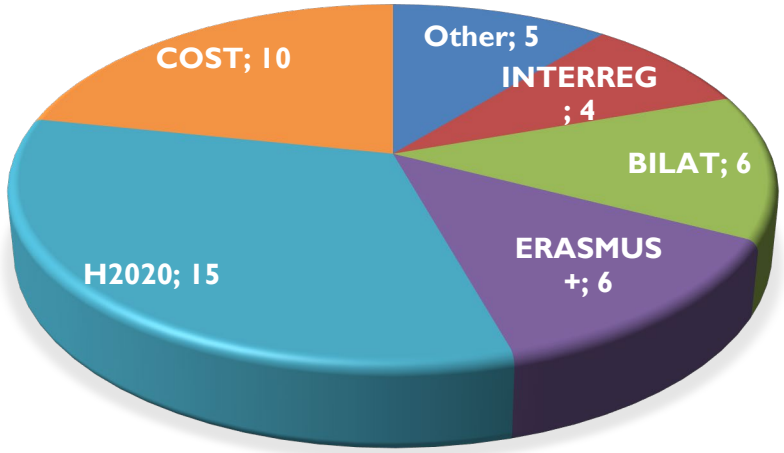
Students

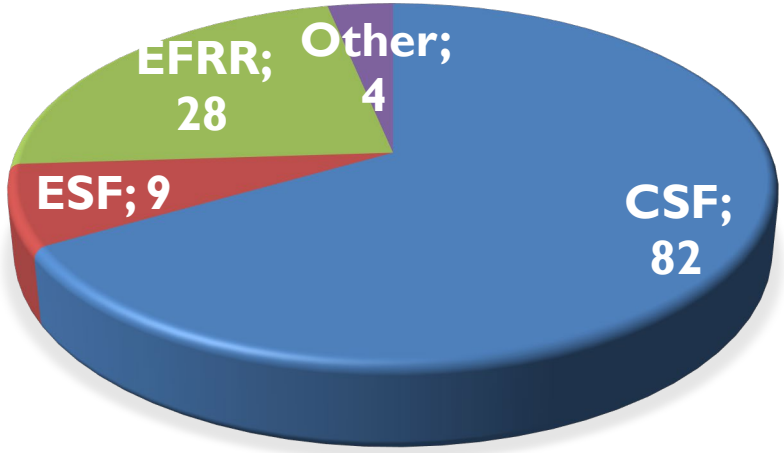



Engineering in medicine and biology
Systems engineering and theory
Engineering management
Consumer electronics
Vehicular and wireless technologies
Control systems
Information theory
Computational and artificial intelligence
Engineering – general
Education
Industrial electronics
Systems, man, and cybernetics
Materials, elements, and compounds
Mathematics
IEEE organization
Intelligent transportation systems
Geoscience and remote sensing
Sensors
Imaging
Computers and information processing
Industry applications
Broadcast technology
Science – general
Communications technology
Signal processing
Instrumentation and measurement
Circuits and systems
Components, packaging, and manufacturing technology
Power engineering and energy
Robotics and automation
Professional communication
Electromagnetic compatibility and interference

169 running research projects





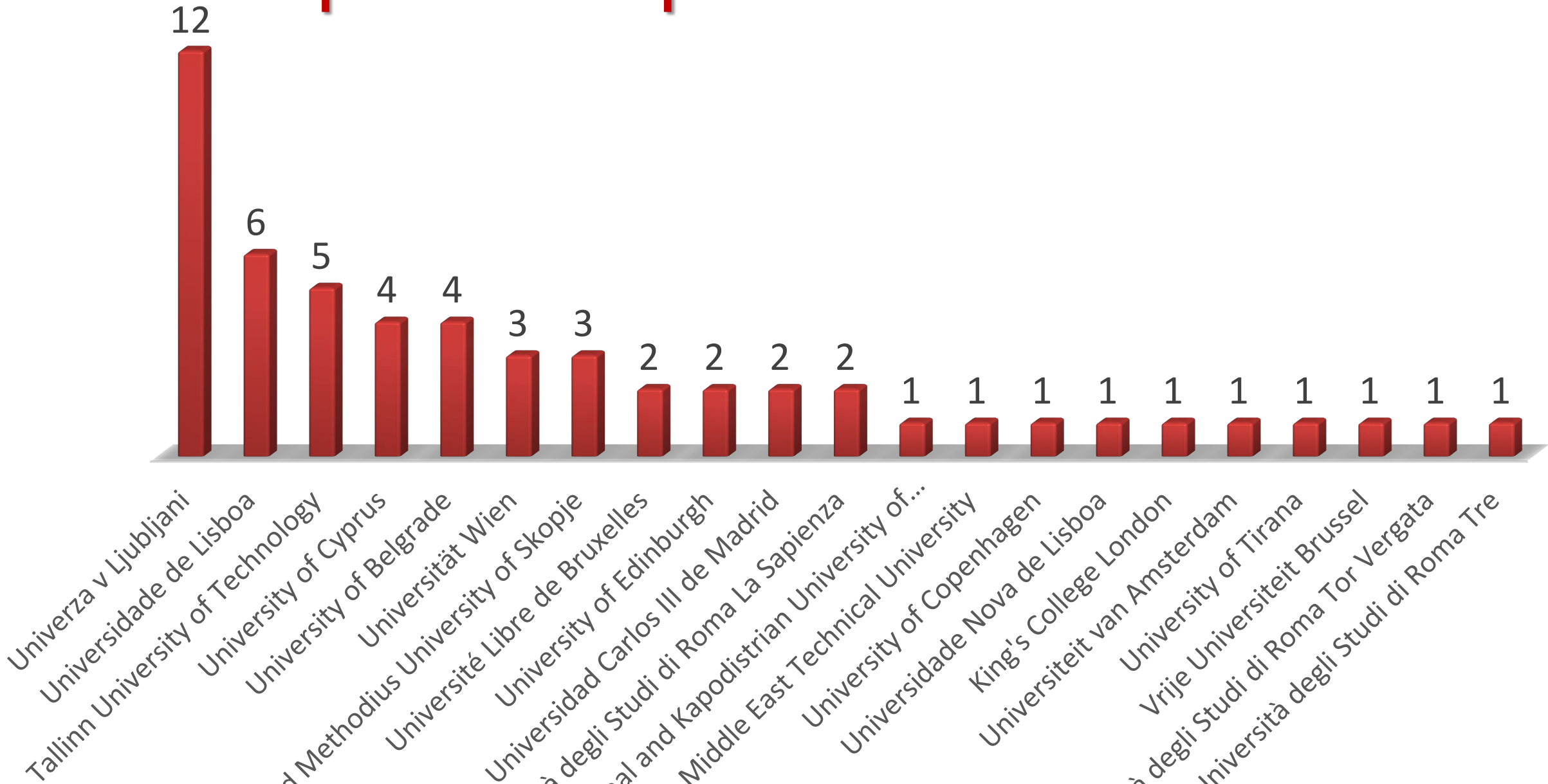


UNICA partnerships

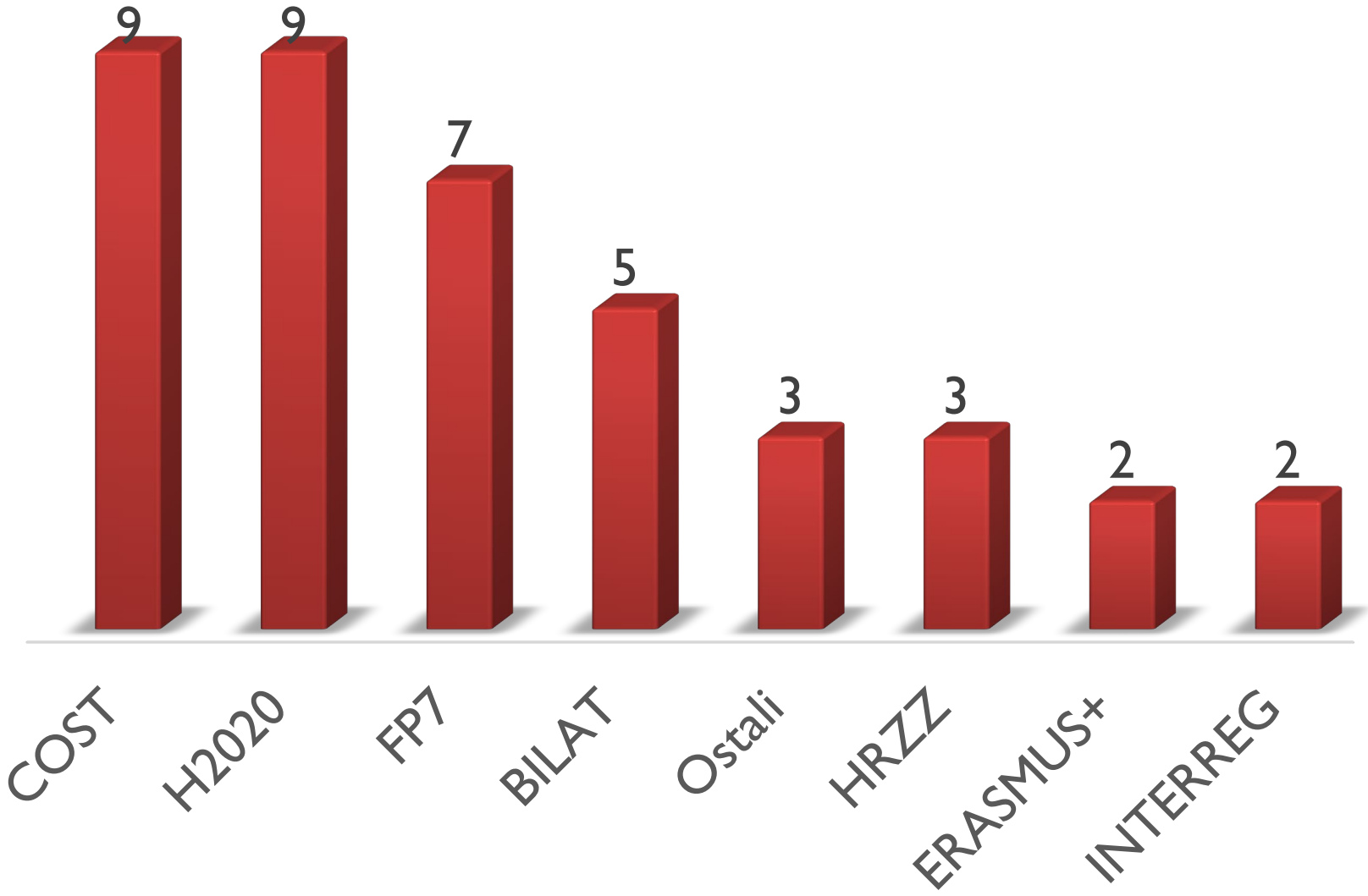
21 out of 51 UNICA members partnering with FER

40 joint research projects

UNICA partnerships



UNICA partnerships



H2020 CROSSBOW

CROSS BOrder management of variable renewable energies and storage units enabling a transnational Wholesale market (http://crossbowproject.eu/)

Goal: propose the shared use of resources to foster cross-border management of variable renewable energies and storage units

Partners: 24 organizations from 13 countries

UNICA: UNIZG-FER, **Prof Igor Kuzle** (igor.kuzle@fer.hr)

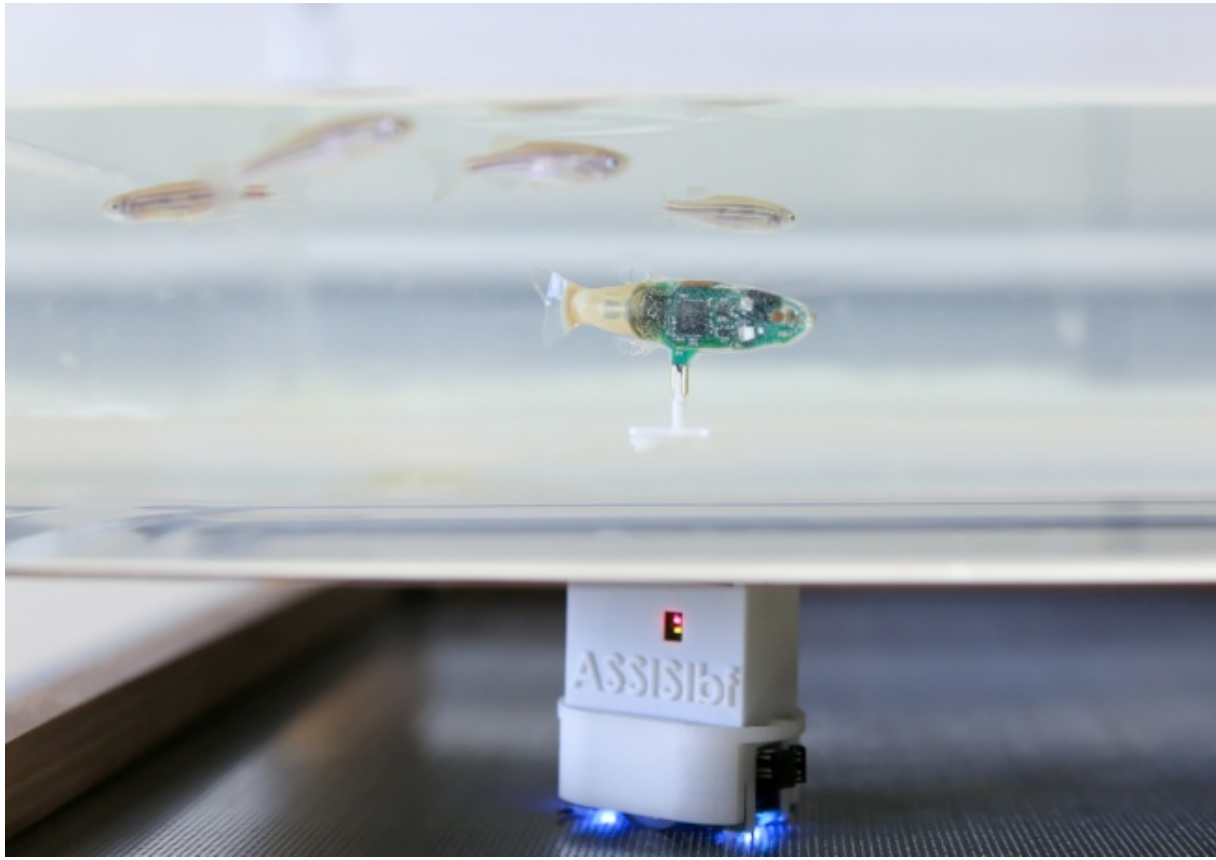
University of Ljubljana: **Prof Andrej Gubina**

University of Skopje: **Prof Vesna Borozan**

Bio-inspired honeybee robot

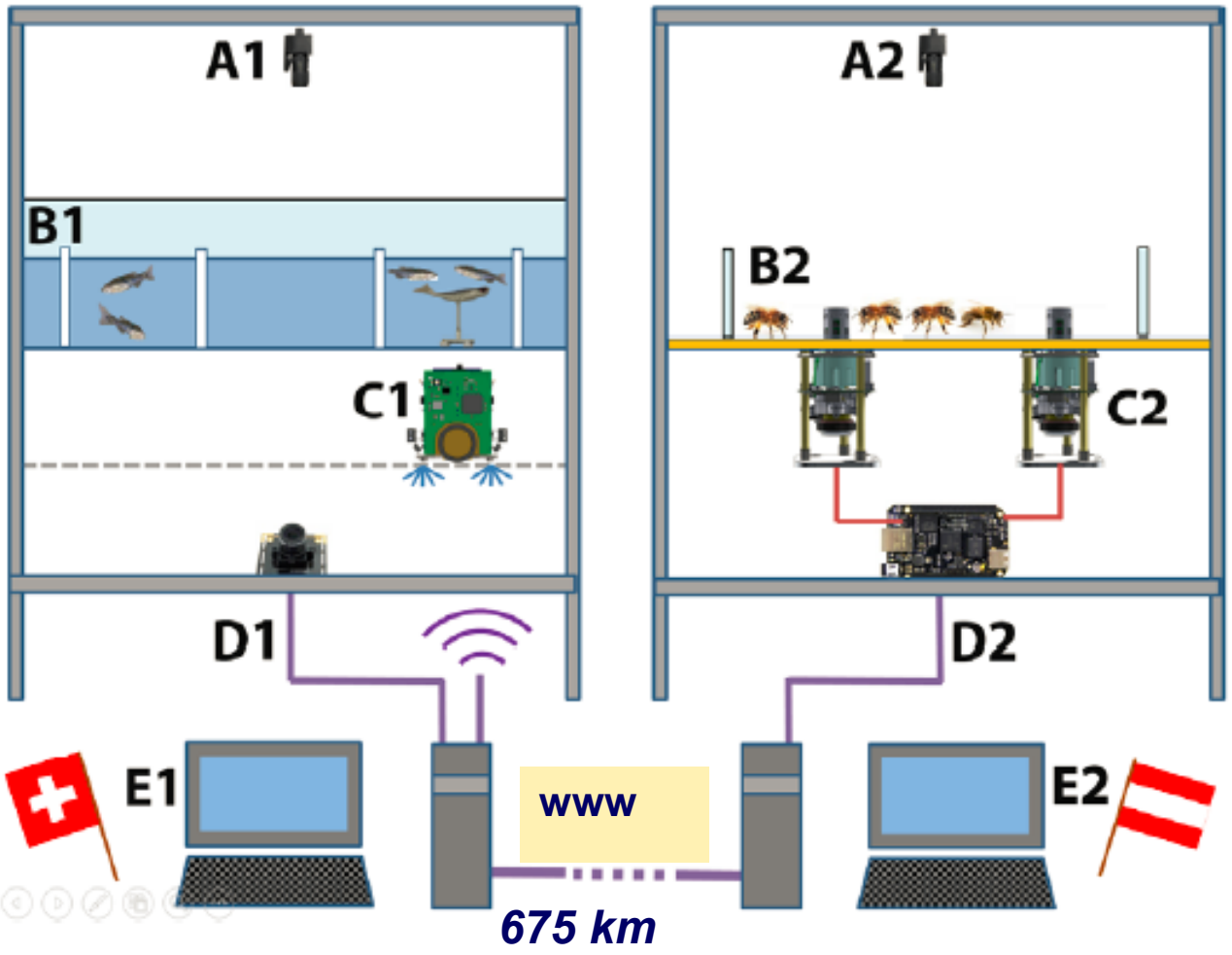
Honeybee society

Zebra fish society

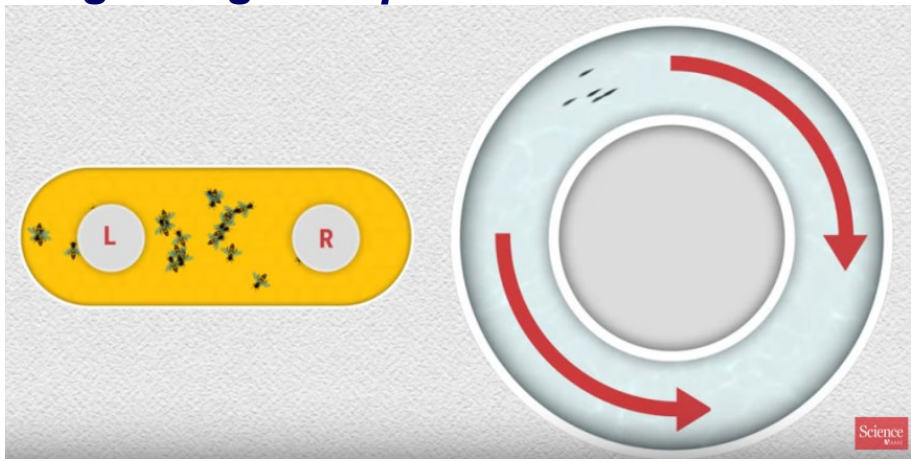


Bio-inspired zebra fish robot

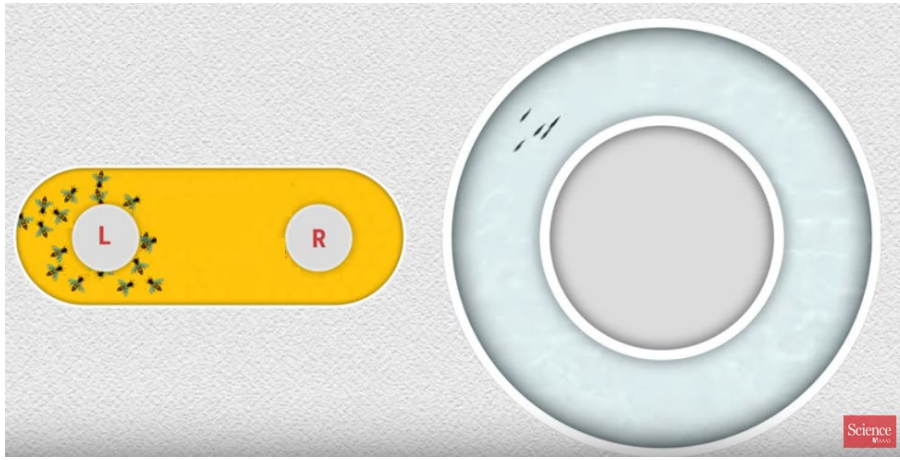
H2020 ASSISI_bf



Beginning of experiment



End of experiment (20 min) – decision reached



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Animal and robot Societies Self-organise and Integrate by Social Interaction (bees and fish)

Goal: to establish interaction between different animal societies by using bio-inspired robots

Partners: 6 organizations from 6 countries

UNICA: UNIZG-FER, **Prof Stjepan Bogdan** (stjepan.bogdan@fer.hr)

Faculdade de Ciências Universidade de Lisboa, **Luis Correia**(Luis.Correia@ciencias.ulisboa.pt)

2,75 m
1,88 m

H2020 ImmerSAFE

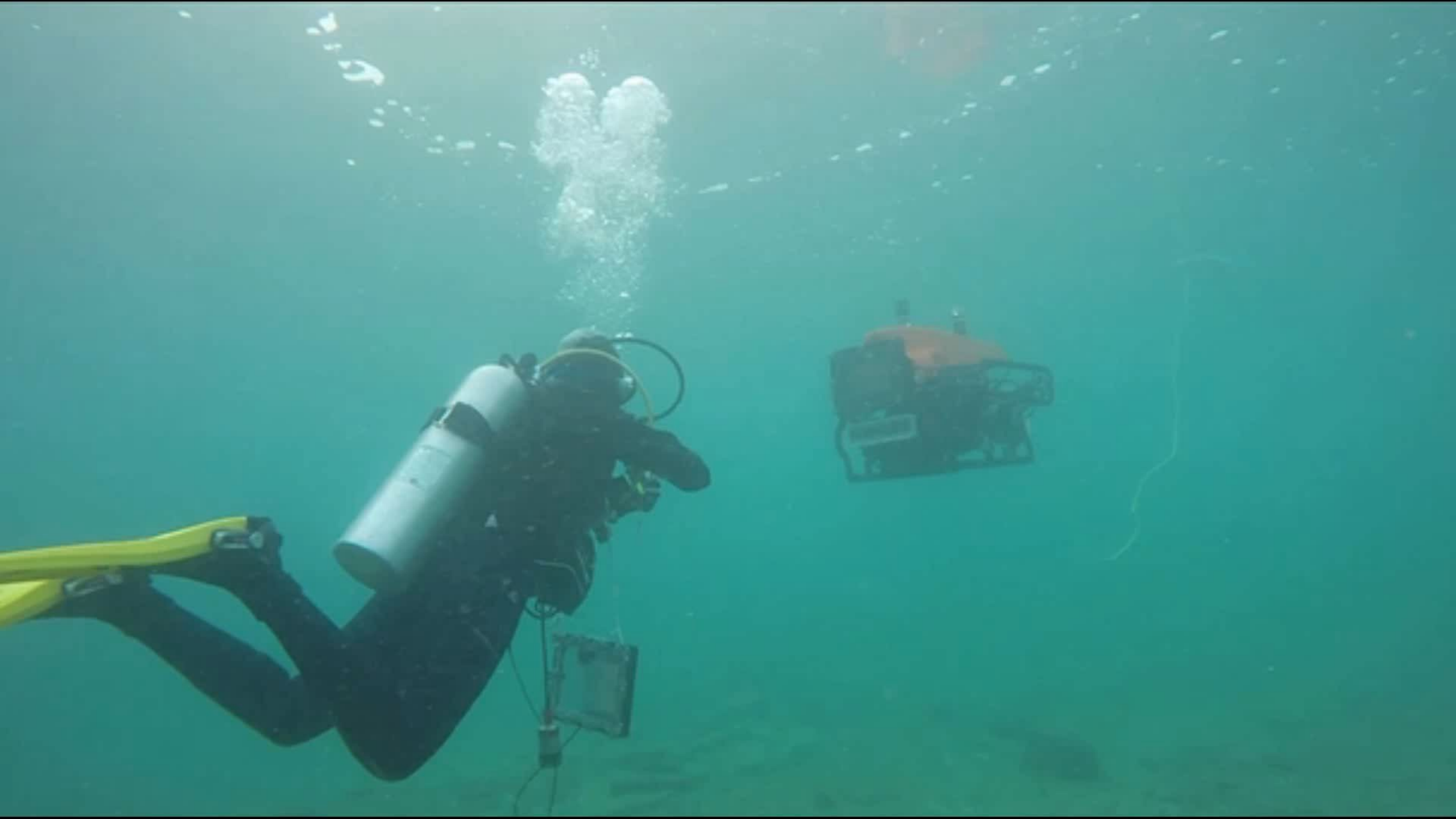
Immersive Visual Technologies for Safety-critical Applications

- Marie Sklodowska-Curie Innovative Training Network
- 15 early stage researchers

Partners: 9 beneficiaries and 5 partner organizations from countries

UNICA: UNIZG-FER, **Prof Sven Lončarić** (sven.loncaric@fer.hr)

Università degli Studi Roma Tre, **Dr Marco Carli** (marco.carli@uniroma3.it)



Robotics

H2020 Robocom++: Rethinking Robotics for the Robot Companion of the future

UNIZG-FER, **Prof Ivan Petrović** (ivan.petrovic@fer.hr)
Université Libre de Bruxelles, **Prof Marco Dorigo**
Vrije Universiteit Brussel, **Prof Bram Vanderborght**
Tallinn University of Technology, **Prof Maarja Kruusmaa**
Universidad Carlos III de Madrid, **Prof Carlos Balaguer**
Middle East Technical University, **Prof Erol Sahin**

Robotics

FP7 EUROFLEETS2 New operational steps towards an alliance of European research fleets

UNIZG-FER, **Prof Zoran Vukić**
TALTECH, **Prof Maarja Kruusmaa**

FP7 CADDY - Cognitive autonomous diving buddy

UNIZG-FER, **Prof Nikola Mišković**
Universität Wien, **Prof Karl Grammer**
Universidade de Lisboa, **Prof Antonio Pascoal**

H2020 EUMarineRobots - Marine robotics research infrastructure network

UNIZG-FER, **Prof Nikola Mišković**
Universidade de Lisboa, **Prof Antonio Pascoal**

H2020 PlaDyFleet - A fleet of unmanned surface marine vehicles

UNIZG-FER, **Dr Antonio Vasilijević**
National and Kapodistrian University of Athens, **Prof Stathes Hadjiefthymiades**

INTERREG BLUEMED

UNIZG-FER, **Prof Nikola Mišković**
University of Cyprus, **Yianna Samuel-Rhoads**

URready4OS Autonomous underwater vehicles ready for preparedness for oil spills

UNIZG-FER, **Prof Zoran Vukić**
University of Cyprus, **Prof Georgios Georgio**

EUROS Expanded underwater robotics ready for oil spills

UNIZG-FER, **Prof Zoran Vukić**
University of Cyprus, **Prof Georgios Georgio**
TALTECH, **Prof Maarja Kruusmaa**

Thank you

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