

# COLLABORATIVE WORKSHOP OPEN INNOVATION FACILITATION IN HORIZON EUROPE

VIPCOAT

• OIP:

musicode

Open Model



Horizon 2020, DT-NMBP-11-2020  
Open Innovation Platform for Materials Modelling, (RIA)  
GA No **952903**, **953187**, **953167**

# WELCOME!

## OIP collaborative Workshop: October 05-06, 2022

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Date: **October 05-06, 2022**

Time: **14:00h to 18:00h on October 05;**  
**09:00h to 12:30h on October 06**

Location: **Brussels / Belgium**

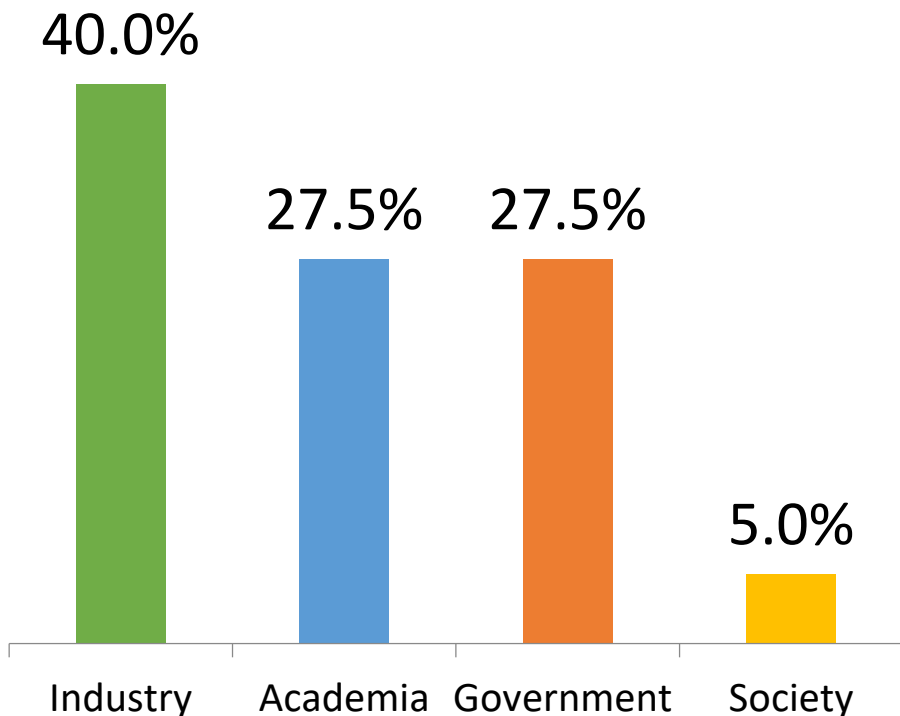
Venue: October 05: **Hanse Office** Brussels, Joint **Representation** of the **Free and Hanseatic City of Hamburg** and the **State of Schleswig-Holstein** to the EU,  
Avenue Palmerston 20, 1000 Brussels

October 06: **Representation** of the **Free Hanseatic City of Bremen** to the EU,  
Avenue Palmerston 22, 1000 Bruxelles

Acknowledgement: **Klaas de Boer** and **Dr. Martina Hilger** for the excellent **collaboration and support!**

# WELCOME!

## OIP collaborative Workshop: October 05-06



**Industry:** LC – 75%; SME – 25%

Manufacturing 44%

Software 38%

Consulting 19%

**Academia:**

RTO 73%

Universities 27%

**Government:**

EC 36%

Other 64%

# WELCOME!

## OIP collaborative Workshop: October 05-06

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**Scope:** to grasp new ideas and requirements on how to promote and realize open innovation processes and supporting tools to deliver innovations based on materials design.

**Output** should summarize requirements on **Open Innovation Platforms OIPs** facilitating **knowledge** and **technology transfer** and enabling **open innovation processes** through the engagement of four stakeholder groups:

European Industry, Governmental bodies, Academia and Society.

# WELCOME!

## OIP collaborative Workshop: October 05-06

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- Idea: Learn from COVID-19 vaccine development
- Concept:  
Knowledge café & Fishbowl discussion including all stakeholders
- Expected outcome: white paper paving the way to  
**Open Innovation Frameworks in Europe**

N. Konchakova , P. Klein, et al. Position Paper: Open Innovation in Horizon Europe,  
<https://zenodo.org/record/5848552#.YftcKt8o9hE>

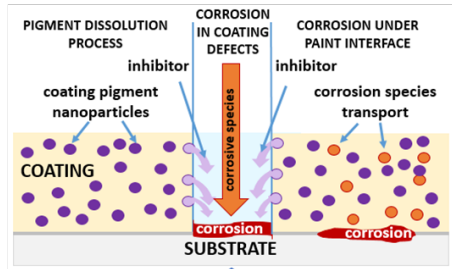
# OPEN INNOVATION PLATFORMS for Materials Modelling

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- Horizon 2020 call DT-NMBP-11-2020, with the goal to:
  - standardize materials modelling workflows
  - provide easy access to data and models
  - foster Innovation
- 3 H2020 projects funded (2021-2025):
  - VIPCOAT**: Virtual Open Innovation Platform for Active Protective Coatings Guided by Modelling and Optimization → [coordinated by Helmholtz-Zentrum Hereon](#)
  - OpenModel**: Integrated Open Access Materials Modelling Innovation Platform for Europe → [coordinated by Fraunhofer IFAM](#)
  - MUSICODE**: An experimentally-validated multi-scale materials, process and device modeling & design platform enabling non-expert access to open innovation in the organic and large area electronics industry → [coordinated by University of Ioannina](#)

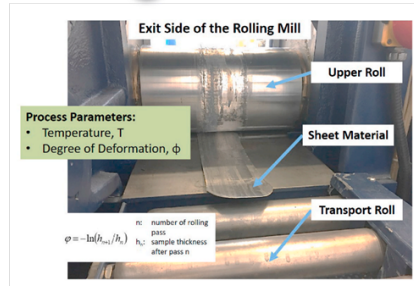
# OPEN INNOVATION PLATFORMS for Materials Modelling



## Active protective coatings

- Effective and efficient corrosion inhibitors
- Optimal coatings microstructure and inhibitors leaching
- Materials behavior in static and dynamic conditions (wet and dry)
- Accelerated cyclic corrosion test

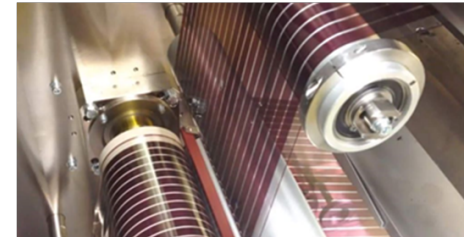
<https://www.vipcoat.eu>



## Materials engineering

- SYNAPTIC ELECTRONICS
- COMPOSITE MANUFACTURING
- ALUMINIUM REINFORCED CONCRETE
- METAL FORMING
- DIGITAL POWDER TESTING
- FUEL CELL TECHNOLOGY

<https://open-model.eu>



## Flexible & printed Organic Electronics

- n- and/or p-type dopants into OPV and OLED active materials
- Ternary donor/acceptor molecular systems for OPVs
- Gas processing - effect of vacuum process parameters for OLEDs
- Wet processing - effect of printing parameters for R2R OPVs

<http://musicode.eu>

# WELCOME!

## October 05, 2022

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- Introduction of the OIP Projects
  - [MUSICODE](#) (Elefterios Lidorikis, University of Ioannina)
  - [OpenModel](#) (Jesper Friis, SINTEF)
  - [VIPCOAT](#) (Natalia Konchakova, Helmholtz Zentrum Hereon)
- Open Innovation – Collaboration from Industrial Perspective (André van Linden, AkzoNobel)
- New EU Innovation Agenda: Open Innovation and the Partnership for Regional Innovation (Thomas Wobben, European Committee of the Regions)
- Introduction to the Knowledge Café (Peter Klein, Fraunhofer ITWM)



# COLLABORATIVE WORKSHOP OPEN INNOVATION FACILITATION IN HORIZON EUROPE: KNOWLEDGE CAFE

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# KNOWLEDGE CAFÉ

October 05, 2022



- What does Open Innovation mean for **Industry**? Which opportunities and industrial needs in Open Innovation do you identify, and which impact do you expect? How can industry contribute to facilitate Open Innovation?
- What is the main **academic** need in Open Innovation and how to meet this need? How academia can contribute to Open Innovation Facilitation?
- How would an ideal **Open Innovation process** look like? What is necessary to realize such a process?
- What benefits for **society**, natural resources and protection of environment can Open Innovation generate? Which opportunities and/or barriers can you identify?

# KNOWLEDGE CAFÉ

October 05, 2022

- 4 café tables for 4 questions
- Each table has 2 **hosts** and 4-5 **guests**
- One conversation round is ~25 minutes
- **Hosts** and **guests** capture their ideas on the “table cloth”



at the end of each round:

- **Host** remains at the table, welcomes new guests and summarizes briefly the key insights gained during the previous round(s)
- **Each guest** move to another table (building of new group compositions)



# KNOWLEDGE CAFÉ

## October 05, 2022

- Change the table and mix group individually /random
- Open discussion and exchange ideas & opinions
- Do not object an opposite view!
- Collect and welcome new ideas
- **Table hosts:**



Natalia Konchakova



Daniel Höche



Peter Klein



Jesper Friis



Elefterios Lidorikis



Salim Belouettar



Stijn Donders



Donna Dykeman

# KNOWLEDGE CAFÉ

October 05, 2022

- What does Open Innovation mean for **Industry**?  
Which opportunities and industrial needs in Open Innovation do you identify, and which impact do you expect?  
How can industry contribute to facilitate Open Innovation?



Stijn Donders



Donna Dykeman

- What are the main **academic** needs in Open Innovation and how to address these needs?

How academia can contribute to Open Innovation Facilitation?



Elefterios Lidorikis



Daniel Höche

# KNOWLEDGE CAFÉ

## October 05, 2022

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- How would an ideal **Open Innovation process** look like? Which tools are necessary to realize such a process?



Jesper Friis



Salim Belouettar

# KNOWLEDGE CAFÉ

October 05, 2022

- What benefits for **society**, sustainability and protection of environment can Open Innovation generate? Which opportunities and/or barriers can you identify?



Natalia Konchakova



Peter Klein



# Day 1



Thank you.

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Networking apéro



The Projects received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No **952903, 953187, 953167**

# COLLABORATIVE WORKSHOP OPEN INNOVATION FACILITATION IN HORIZON EUROPE

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Day 2



Horizon 2020, DT-NMBP-11-2020  
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GA No **952903**, **953187**, **953167**

# WELCOME!

## October 06, 2022



- Knowledge Café Debriefing: presentation of the results by the “table hosts”
- **Fishbowl** discussion
  - Anna Cattani-Scholz (Helmholtz Association)
  - Gavin Bown (Beckers Industrial Coatings Ltd)
  - Franc Mouwen (EC, EIC)
  - Klaas de Boer (Hanse Office)
- **Open Innovation approach applied to the design of Horizon Europe future calls**: Francesco Matteucci (EC, EIC)
- Wrap-up and summary / **Open Innovation Frameworks in Europe**

# FISHBOWL DISCUSSION

## Questions

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- How to induce **TRUST** in Open Innovation Platforms / Frameworks
- **OPENNESS** while using OIPs/OIFs is an issue for industry. Are “levels of openness” a necessary ingredient?
- How to **convince** all stakeholders, in particular from the societal pillar, to contribute to Open Innovation Framework utilization?
- Which **BUSINESS MODEL(S)** could be suitable for a successful implementation and deployment of OIPs?

# FOLLOW-UP

## Next steps

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- Draft of the *OIP White paper* summarizing the Workshop outcomes, will be created in **November** and send to the “tables hosts” for completion.
- After the first iteration (beginning **December**) we will send the white paper to all participants for review, comments and suggestions.
- We are aiming to deliver the final version in **January 2023**



If you have additional input and ideas on topics discussed during the workshop feel free to contact us

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Thank you.

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