H2020 MEGA Project
Model of Implementation

Dr. Oksana Palekienė
KTU Research and Innovation Projects Centre
21/10/2022

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under the Marie Skłodowska-Curie Grant Agreement No 823720

H2020 MSCA-RISE PROJECTS AT KTU, 2014 – 2022

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6

Signed Grant Agreements

1

Project Coordinator → MEGA

5

Projects' Partner

Source: *https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon-dashboard*, 21/10/2022

MEGA – Heavy metal free emitters for new-generation light (823720)

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Overall goal is to develop heavy metal free emitters for new-generation light sources.

Objective 1	Objective 2	Objective 3	Objective 4
Screen compounds with TADF or lasing properties by means of molecular modelling	Synthesise most promising compounds with TADF or lasing properties	Characterise most promising compounds with TADF or lasing properties	Test materials in device structures to meet industry requirements

H2020 MEGA Project Video >>> YouTube

MEGA

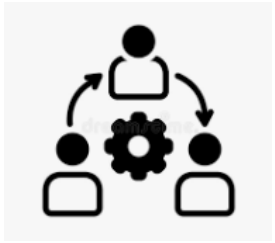
MEGA H2020 - Home (h2020-mega.eu)

MEGA Legal Project Information

START DATE
01/01/2019

GRANT AMOUNT
1.633.000 EUR

END DATE
31/12/2023



From the 01/01/2019:

10 Beneficiaries from 6 EC/AC +
2 Partner Organisations from TCs (BY, TW)

5
Amendments

At the moment:

11 Beneficiaries from 7 EC/AC +
2 Partner Organisations from TCs (TW, ML)

Lithuania Germany Ukraine Taiwan

France Luxembourg United Kingdom Armenia Malaysia

MEGA CONSORCIUM

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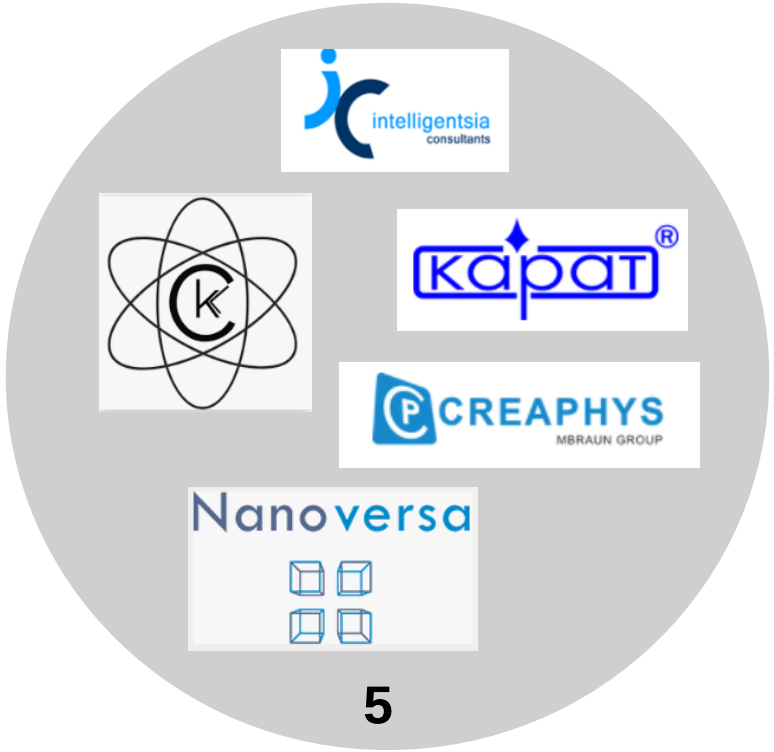
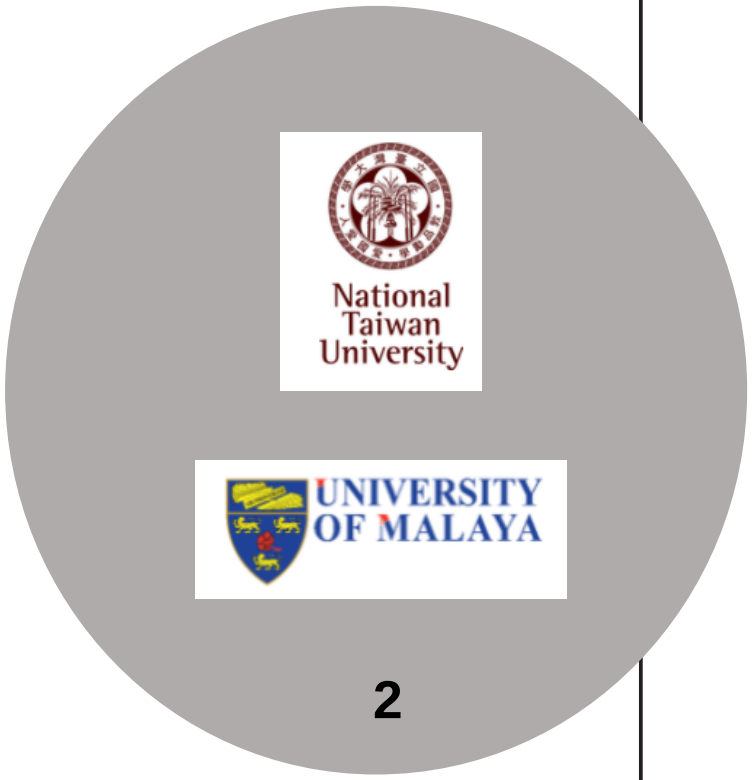
ACADEMIC SECTOR

NON-ACADEMIC / INDUSTRIAL SECTOR



PARTNERS' ORGANISATIONS FROM **THIRD COUNTRIES**



MEGA: KNOWLEDE TRANSFER

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Key objective – to develop **international** and **intersectoral pathways for the transfer of knowledge** to enable the production of heavy metal free emitters for new-generation light sources.

Category of Knowledge	Expertise Required
Organic material theory	Quantum chemistry, mathematical optimisation
Organic material synthesis	Organic structures, synthesis schemes, green chemistry methods, sublimation
Organic material characterisation	NMR and IF spectroscopy, mass spectrometry, microanalysis, X-ray analysis, TGA differential scanning calorimetry, electro-optical analysis (charge mobility, energy levels), AFM, SEM
OLED devices	Vacuum and wet technologies, organic material handling, optical simulations for device optimisation, device characterisation (jVL, EQE, spectra, lifetime)
Organic laser device componentry	Theoretical simulation; deep vacuum, holographic and photolithographic techniques; device characterisation (input-output characteristic, spectra, stability)

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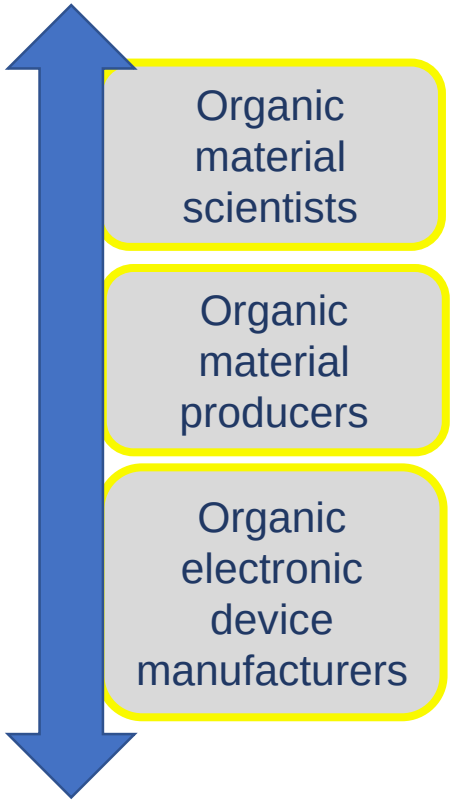

MEGA: BENEFITS

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Joint research → publications of the results

Know-how transferal trainings (including workshops)

Secondment based on the **on-the-job research trainings**

Enhancing the potential and future career perspectives and development of the staff members (ESRs and ERs)

Achieving transfer of knowledge between participating institutions

Developing new and lasting **research collaborations**

Improving research and innovation potential of participating institutions

Improving of the research and innovation potential of the Hosting and Sending institutions at the European and global levels

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MEGA CHALLENGES

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Managing of project activities (due to countries' regulations and internal partners institutions' rules)

Support form institution's projects / legal (other administrative) units

A great number of project's secondments

Clearly plan the secondments for each project partner institution

Pandemic (unforeseen) situations

Plan the secondments as accurately as possible (evaluate all possible risks)

Unsolvable / discussion issues within consortium

Contact project coordinator → communicate with EC project officer, assigned to the project

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MEGA: SUGGESTIONS

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Grant application process

- To prepare the grant application in line with the appropriate Work Program, call documents and other appropriate strategic documents
- Partners have the experience in implementing the EU financed projects before
- Responsibly plan the secondment plan
- Identify and foreseen main risks

Project implementation process

- Clearly identify project management structure and responsibilities in CoA *(coordinator, admin. manager, boards, etc.)*
- Focusing on project results *(Deliverables, Publications)*
- Risk management
- Collaboration / communication based in trust among consortium partners

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MSCA – Staff Exchange (RISE) action benefits

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A platform where academia and industry interact and join forces

Secondments

Motivated young researchers

New generation‘s trainings in an interdisciplinary way

Joint Research

New scientific ideas

Workshops

The improvement of the research and innovation potential of partners‘ institutions

Scientific and technical collaboration internationally and intersectorally

New achievements

More stronger career path of the researcher

Trainings

More visible project partners’ institutions in both Europe and beyond

Development of new and lasting research collaborations

Outreach activities

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