











Process of applying:

- Understand the EIC Transition
 Goals & Evaluation Criteria
- Prepare Before Applying (eg. IP)
- Selecting partners
- Drafting the project
- Interview with a Pitch deck
- Project running & Challenges
- Spin-out company
- Q&A

+ trans2Dchem -

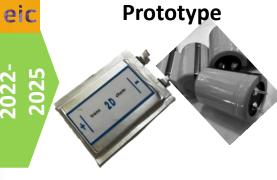
Transition of 2D chemistry-based supercapacitor electrode material from proof of concept to applications

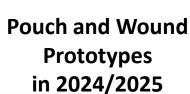




2021









Immediate market (via network of Itelcond customers)



Future market

Automotive Transportation Industry

2027+





Spin-out company established 2024

ERC Consolidator
ERC Proof of Concept
Synthesis up-scaling
Device concept
IP protection





Selecting partners





- Have a clear idea what each partner can bring to the project, focus on complementarity and synergy
- Make sure you know them / have references, so you can rely on them
- An industrial partner (or end user) can bring different points of view and valuable expertise
- Selecting the right number of partners
- Ensure shared vision and IP strategy alignment





Drafting the project





- Identify a business opportunity then figure out how you could address it with your solution – based on solid scientific background
- Consulting company for proper drafting you can hire someone to help you
- Align with EIC Transition objectives
- Risk management part is important





Project running





- Make sure to be in almost a constant contact with your partners
- Update each other regularly
- We have 1 meeting per month, usually online, then once a year an in-person consortium meeting
- In-person visits proved to be very helpful in sharing practical knowledge
- Focus on exploitation & post-project planning





Challenges and changes





- Possible deviations from the original plan during the implementation
 - Risk management plan, pivoting, being able to design a good and valid mitigation plan that will yield very similar results
 - #1 we changed one planned milestone for a more meaningful one based on a feedback from possible customers
 - #2 during preparation of prototypes, our industrial partner could not provide a suitable environment process was moved to Olomouc
 - #3 war in Israel their deadlines were extended and experiments repeated





Challenges and changes





- Deliverables during the project had to be very detailed
 - Make sure all partners are unified in the way of reporting results
- Make sure to properly prepare for the review meetings
- Do not assume reviewers had time to read the deliverables
 - Be detailed in your review presentation





Spin-out company





- ATOMIVER and the key technology:
 - Nitrogen-doped graphene for supercapacitors (SC)
 - We do not want to be another SC manufacturer
 - We want to supply our active material to the SC manufacturers, they will apply their processes to make the final device
- Founding team combines technical and business expertise, with key personnel from the ERC and EIC research projects continuing with the spinout (3 founders from EIC, 1 external)





Spin-out company





- We pursued the spin-out as one of the results of the project based on discussions during the drafting the project
- The initially drafted business opportunity proved to be viable and desired, we have already gained a strong traction from potential customers
- Atomiver signed an exclusive licence agreement with Palacký University Olomouc regarding the technology

Seed investment

production facilities

Setup in-house

commercial



ERC PoC project granted Name: **UP2DCHEM**

€ 150 ths. Budget:



Synthesis

Device concept

Lab tested



Global patent applications submitted for SC-GN3

ERC PoC project results in discovered performance of:

- 200 Wh/L
- 50 kW/L
- C/D 100 000+



EIC Transition project aranted

Name: Budget: TRANS2DCHEM

€ 2.5 million

ATOMIVER established as official spin-out

> **ATOMIVER** signed an exclusive license with CATRIN

> > H2

2024

and more...

First sales

H1 2023 2022 2024

Established potential commercial performance of 55 Wh/L

Pouch cell prototypes



ATOMIVER obtained a € 200 ths. grant from Czechlnyest

TECHNOLOGY INCUBATION

First wound-cell prototypes

ATOMIVER is accepted to the NATO DIANA accelerator program, incl. € 100 ths. grant

2025











Spin-out company





- Next steps for the company:
 - Fundraising
 - Planning a pilot line
 - Developing prototyping capabilities
 - Applying for non-dilutive funding









