

**Host organization:** SYNPO, akciová společnost, [www.synpo.cz](http://www.synpo.cz)

**Country:** Czech Republic

**Organization role:** Beneficiary/ WP leader/ Task leader

**Project Acronym:** NANO2DAY

**Project start and end date:** 01/05/2018 – 30/04/2022

**Type of MSC action, H2020:** RISE



### **Your story:**

#### **Project objectives and research field:**

Nano2Day project is devoted to developing novel multifunctional composites based on the incorporation of MXenes and other 2D nanosheets into polymer matrices. This approach should enable production of electrically conductive and mechanically more durable composites. As a consequence, new composites should prolong the lifetime of final products, thus save the resources and reduce operating costs.

#### **Tell us why the topic is important and/ or how it brings to advancement in your research field:**

Research in the field of nanomaterials is widespread and intensive, but real applications of nanomaterials are still rare. As a company focused on research and development in polymer chemistry and in production of coatings, we are proud to be involved in this hi-tech research. Our aim is to bring innovative products to real customers so they could benefit from advances of nanomaterials.

#### **What are the benefits of participating in a MSC action?**

Participation in an international project is beneficial for developing new networks for cooperation and also helps to find new potential customers. Meeting new people not only from other countries but also from different environments (academic/ industrial) deepens understanding of these two sectors. This helps to overcome the gap between research and application.

**Did you encounter any challenges during application/ implementation and did you get any help?**

We did not encounter any challenges which would need special support.

**Would you recommend others to apply? What useful advice/ tips can you give them?**

Building an international network of coworkers and partners is very useful and beneficial both for industry and academic sector. The main tip is to be active and search for new partners and projects. It is possible to find cross-section even in areas where it is not obvious at first sight.

**What strategies did your organization use to attract the fellow/s? Are they in line with national strategies supporting the widening EC policy?**

Our participation in Nano2Day project is based on previous cooperation on another MSCA-RISE project SMARCOAT. So, we have already known part of the project consortium. However, to find new partners for other projects, we used also the Participant Portal. In our opinion, the cooperation with widening countries is very positive and participation in projects such as Nano2Day increases the engagement in Horizon 2020.