

651031: Copernicus Hubs and Institutions – excursion report

Where and when did I go?

On the 26.05.2026. I went on excursion to the Vienna to visit EODC (Earth Observation Data Centre) & UNOOSA (United Nations Office for Outer Space Affairs) within the corse Copernicus Hubs and Institutions.

EODC location that we visited is on the Franz-Grill-Straße 9/Object 214, 1030 Vienna, where the supercomputing clasters (MUSICA, VSC...) are located. But, EODC head offices are actualy on the different location on the Lothringerstraße 4, 1040 Vienna.

UNOOSA location that we visited is on the Wagramer Str. 5, 1220 Vienna.

Whom did I meet?

First institution on this excursion was EODC, there we meet with Ernst Haunschmid and Christian Briese. Second institution we visited was UNOOSA and there we meet with Lóránt Czárán.

Ernst Haunschmid is a information technology manager at TU (Technische Universität) Vienna. He is the head of the HPC group.

Christian Briese is the managing director at EODC.

Lóránt Czárán is a chief of the space applications section at UNOOSA. He aslo corrdinates UN-SPIDER program.

What did I learn?

EODC

In the visit of EODC institution I learnt about EODC company and supercomputing clasters. Also in the visit me and my group was able to see those clasters and see how they work and perform. Mr. Haunschmid was first who give us presentation when we arrived. He talked about clasters itself. When did it everything start and how did it work at start and how they are working now. This first presentation was the intoduction to the clasters because after the presentation we went to see cooling system and clasters. In the presentation he provided us with overview of the technical part of the EODC, their location, partner institutions (Image 1), yeras when the everything started and provided us with all clasters that was, are and will be.



Image 1 EODC partners

We learnt about VSC 4, VSC 5 and MUSICA as main topics because these are the clusters we saw and these are clusters that are in work today. After we learnt more about clusters we

also heard about new project that is in work and that is AI:AT, this is the future and new era of the supercomputers. Image 2 is showing the slide that was presented in the excursion.



Image 2 AI:AT

After the presentation we went to see the clusters but before that we saw cooling system. Image 3 is showing the cooling room. Cooling system works on the base of the water. Interesting thing is that systems waste can be transformed into the electrical power but due to government issues is very hard accomplished that task.



Image 3 Cooling room

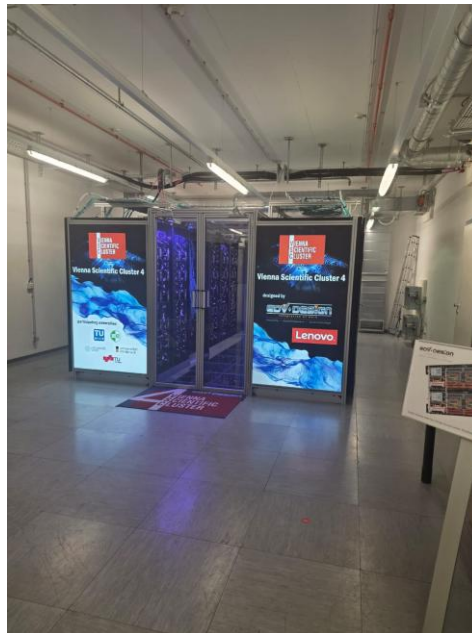


Image 4 VSC 4



Image 5 VSC 5

Image 4 and Image 5 are showing the clusters VSC 4 and VSC 5 although they look similar they are quite different. As we can see on the image VSC 4 has a some sort of the heat tunnel which VSC 5 does not have. Heat that is projected out of the VSC 5 came out on the back. Every cluster has a display where we can saw the temperature.



Image 6 MUSICA

Image 6 is showing the MUSICA cluster. MUSICA cluster is much bigger than the other two. They all look almost the same but they are executing the work differently. Main difference is cooling system.

After the tour of the clusters we had one more presentation with Mr. Briese where he gave us the presentation about EODC office and rather more theoretical part of it. Theoretical part is more about the office work, paper work, ect., then the technicality of it. Promotions and marketing is also there in the other location of EODC.

UNOOSA

After EODC we went to UNOOSA where we had presentation with Mr. Czárán and where we saw the space exhibition. When we came there first we needed to pass the security after that we meet our presenter at a conference room and our presentation began. In the presentation Mr. Czárán talked about UNOOSA, what is it, what are they doing, and what SPIDER program is about. We learnt that they are watching over space and that their vision is to bring the benefits of space to humankind. They are trying to promote international cooperation in the peaceful uses of outer space to achieve SDG-s. For UN-SPIDER mission we learnt that after disaster they are trying to approach the same in the best possible way, so that we can response and recover on time.

After the presentation we went to see the space exhibition that they was holding. There we could saw the models of rockets, space stones, ect (Image 7).



Image 7 Us at the UN exhibition

In conclusion from this excursion I gained knowledge of how clusters work, and where they are stored, I learnt about EODC missions also I learn about UNOOSA and SPIDER mission. Main things I am bringing with me is that if we provide world with our knowledge and new ideas humankind will go to future if not we will be in past. In EODC we learnt this „Translating data into knowledge!“ this sentence had and have a big impact in me because in both institutions we learnt that data is giving us knowledge and new opportunities in life which we must take. Who ever has opportunity to go to this institutions take it because it is worth to check.

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Literature

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About Mr. Czárán, <https://rscy2026.com/our-team/mr-lorant-czaran/>

About Mr. Haunschmid <https://www.linkedin.com/in/ernst-haunschmid-435619203/>