

THREE DIMENSION WORKSHOPS

Upper Austria

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THREE DIMENSION WORKSHOPS

Date	Dimension	Event Title	Location	Participants	
				AVM	CCI
08.10.2020	Future Trends - (Meet the experts) <i>(in combination with Info Day D.T3.1.4)</i>	WE ARE SO additive manufacturing	Online (Zoom)	11	19
06.05.2021	Mindset of AVM (Mindset PREP) <i>(in combination with Guided Company Tour D.T3.2.3)</i>	Advanced Sustainable Architecture: The Facade	Online (Zoom)	22 (new) 23 (total)	43 (new) 44 (total)
20.05.2021	Technology (Hands on knowledge) <i>(in combination with Guided Company Tour D.T3.2.3)</i>	Advanced Sustainable Architecture: The Roof	Online (Zoom)	6 (new) 9 (total)	15 (new) 21 (total)
TOTAL				40	77

Project relevance:

These events are based on the concept for the three dimensions workshops (D.T2.3.2). The piloting is described in D.T3.2.1.

Generally, all our piloting activities are dedicated to a specific focus rather than AVM/CCI in general. As we strongly believe and the specialisation helped us to raise awareness within a specific target audience. We focused on a sector undergoing an immense transformation process: the construction sector. Our Focus is therefore Advanced sustainable architecture: Advanced architecture encompasses many areas that go beyond classic building construction. Together with AVM and CCI we want to raise awareness, foster collaboration to rethink improved efficiencies with new technologies, new processes and also the social, ecological and sustainable improvement of modern architecture.

We understand this to mean, for example, 3D printing of concrete, the use of robotics to solve repetitive and dangerous tasks, new materials, deconstructability, avoidance of soil sealing, and also the use of "smart home" technologies that create a living atmosphere adapted to the user while saving energy. Our 3 Dimensions Workshop, which was initially planned as a one-day workshop, the Covid-19 pandemic has made it necessary to organize an online version and therefore, to condense the workshop into a shorter format to reach a bigger audience and to combine this with the guided company visits.



WE ARE SO additive manufacturing

DESCRIPTION

Dimension: Future Trends (Meet the experts)

Experts raised and answered following questions along the topic 3D printing and "additive manufacturing" in the architecture and construction industry:

- What is additive manufacturing and 3D printing in general?
- How can new technologies - especially 3D printing and robotics - be used in the architecture and construction industry?
- Which materials (concrete, metal, plastic, sand, wood, etc.) play a significant role here? Which ones will be of interest in the future?
- What trends, opportunities and challenges are currently occupying the sectors?
- What examples are there of this in the regional, national and international context?
- Which Austrian companies are considered pioneers in this field?
- How can creative professionals (designers, architects, agencies, etc.) work together with manufacturing companies to promote innovation?

FEEDBACK

	Very satisfied	Satisfied	Neutral	Rather un-satisfied	Very un-satisfied
How satisfied were you with the content of this workshop?	100%	0%	0%	0%	0%
How satisfied were you with the quality of discussions and interactions?	66,66%	33,33%	0%	0%	0%
How satisfied were you with the organization of this workshop?	100%	0%	0%	0%	0%



Advanced Sustainable Architecture: The Facade

DESCRIPTION

Dimension: Mindset of AVM (Mindset PREP)

Key topics: The focus of the Mindset prep online workshop was that experts from AVM company SIGHA and the CEO of the international architecture Company Snohetta gave insights on the façade of the future. The spectrum ranged from design aspects, the transport of corporate values via the façade, to ecological aspects and technical solutions for lightning protection or shading.

FEEDBACK

	Very satisfied	Satisfied	Neutral	Rather un-satisfied	Very un-satisfied
How satisfied were you with the content of this workshop?	60%	40%	0%	0%	0%
How satisfied were you with the quality of discussions and interactions?	60%	33%	7%	0%	0%
How satisfied were you with the organization of this workshop?	71%	29%	0%	0%	0%
How satisfied were you all together?	53%	47%	0%	0%	0%

Advanced Sustainable Architecture: The Roof

DESCRIPTION

Dimension: Technology (Hands on knowledge):

Key topics: Land sealing, a shortage of skilled workers and the sustainable use of raw materials: these will continue to occupy the construction industry in the future; challenges that also require the (re)design of craft processes. This also applies to roof constructions and roof coverings. Prof. Braumann from the department of "Creative Robotics" of the university of Art and Design provided insights and inspiration for rethinking craft processes in interaction with new technologies and present inspiring and proven examples. His Approach is to see industrial robots not as mere manufacturing machines but as an interface between the digital and physical worlds.

FEEDBACK

	Very satisfied	Satisfied	Neutral	Rather un-satisfied	Very un-satisfied
How satisfied were you with the content of this workshop?	64%	27%	9%	0%	0%
How satisfied were you with the quality of discussions and interactions?	91%	9%	0%	0%	0%
How satisfied were you with the organization of this workshop?	92%	8%	0%	0%	0%
How satisfied were you all together?	82%	18%	0%	0%	0%



FOLLOW-UP

All participants were invited to continue with the COCO4CCI process and will be reminded to any upcoming events, especially Speedathon (Specialization Matchmaking D.T3.5.2) and Ideathon (Matchmaking via open innovation D.T3.3.2)

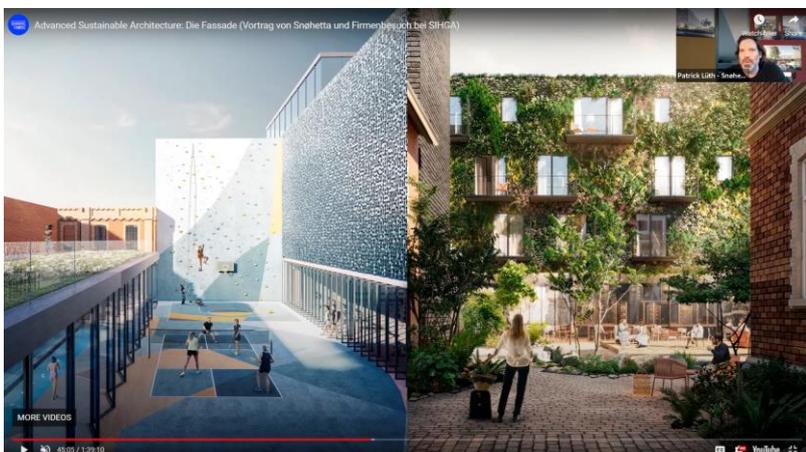
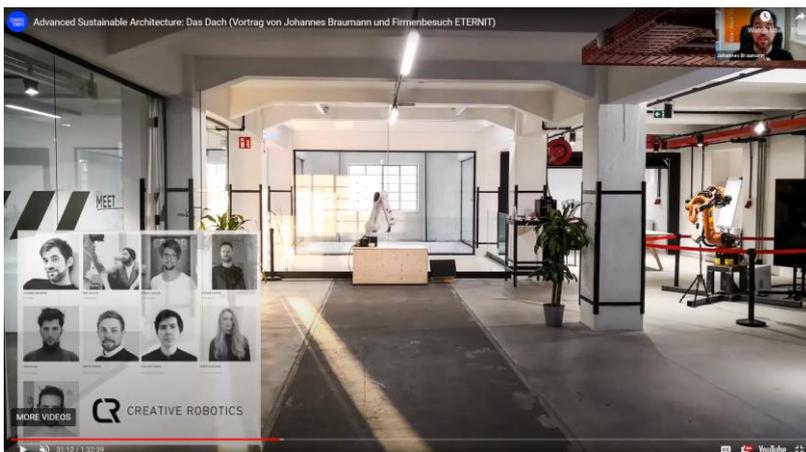
OUTPUT

Online training material:

The outputs of the events were transferred into online training materials (part 1 and part 2): D.T3.2.2 and D.T3.2.4

- WE ARE SO additive: Video and article on the future trends in additive manufacturing ([Link](#))
- Advanced sustainable architecture: The façade: Video and article ([Link](#))
- Advanced sustainable architecture: The Roof: Video and article ([Link](#))

PHOTOS





Christine Bärnthaler
Here we are looking at the case of printing with sand and cement.
@Andr Gründerin und Innovationsagentin bei ofroom

of room

1:19 / 5:29