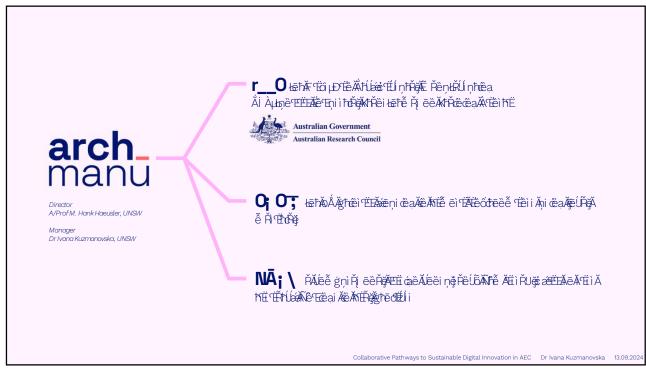


Dr Ivana Kuzmanovska, UNSW

LSAA Conference 2024, 13th September

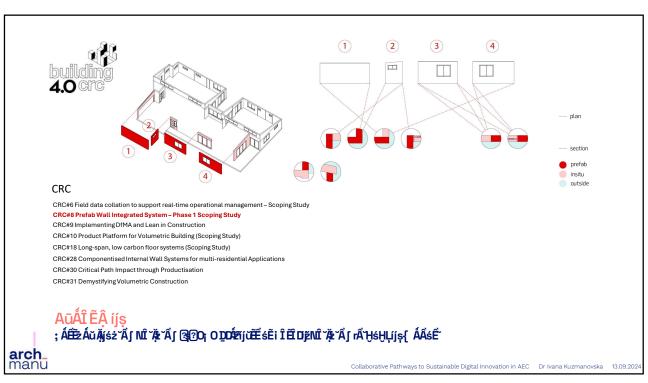
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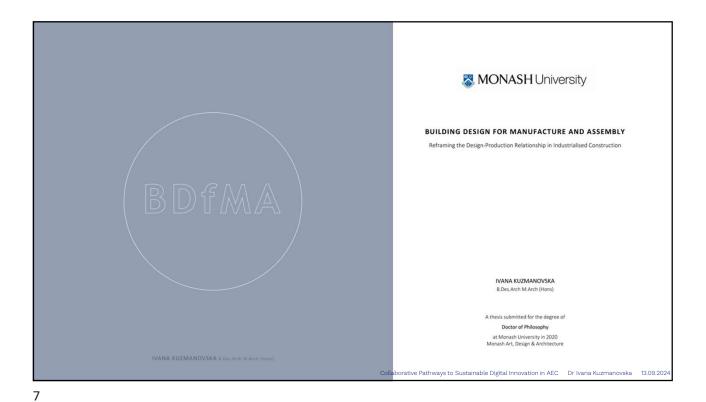


Ļ~śĒĎĎŤŪĂjĄ ĖŚŪŽĻíj ŚŻŻŪŽĖÄĴ,
Ļ~śĒĖÅÎ DĀDDĎŽŠŬ,
ĒÄĄ (j ĎĎŽĬjŬĖŠ;









SYSTEM FEATURES .. COMPONENT CHARACTERISTICS .. FABRICATION ... PROCESS FACTORS .. LOGISTICS ... POST-PRODUCTION .

April 10 July 10 J

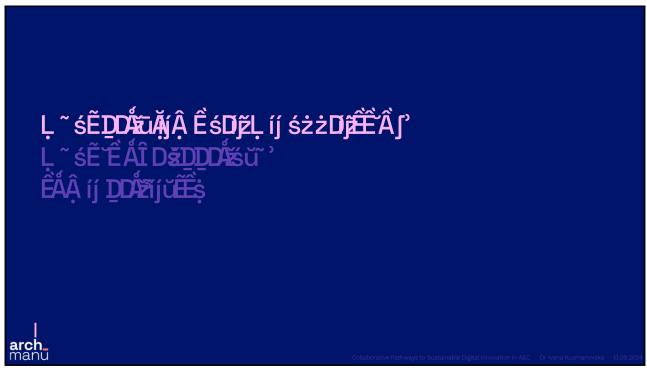


ARC Centre for Next-Gen Architectural Manufacturing

Collaborative Pathways to Sustainable Digital Innovation in AEC

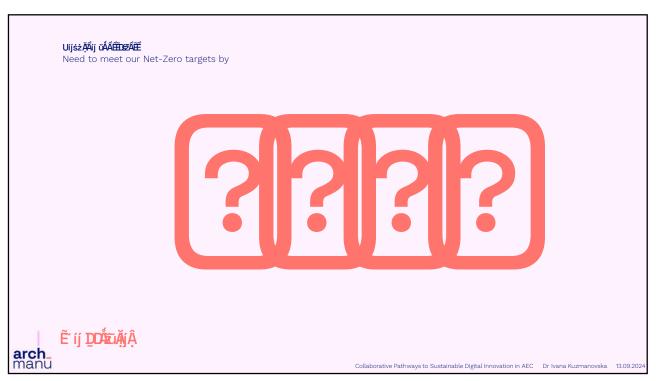
Dr Ivana Kuzmanovska 13.

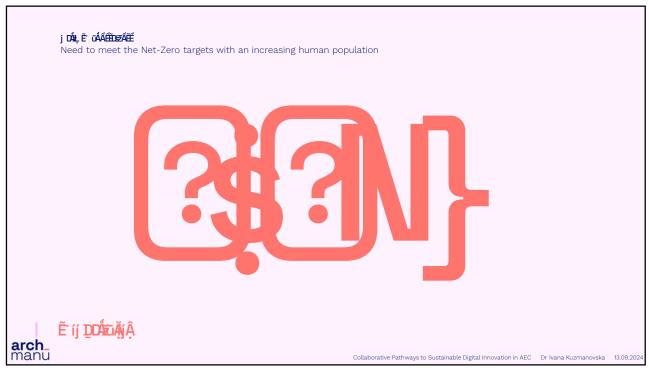
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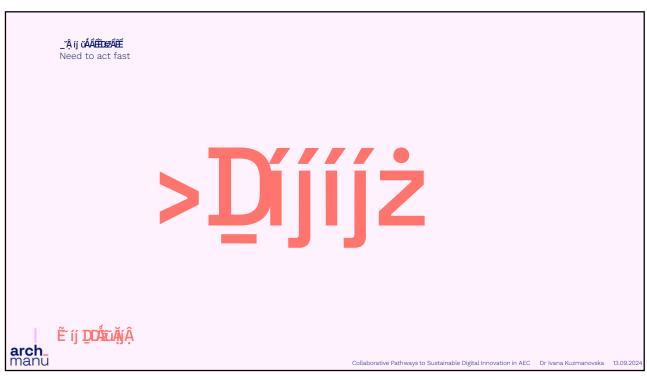




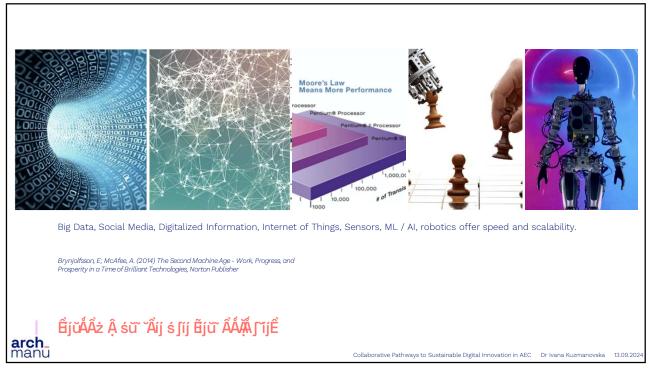






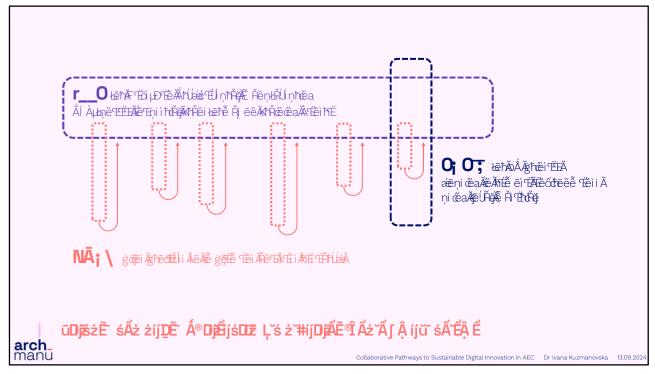


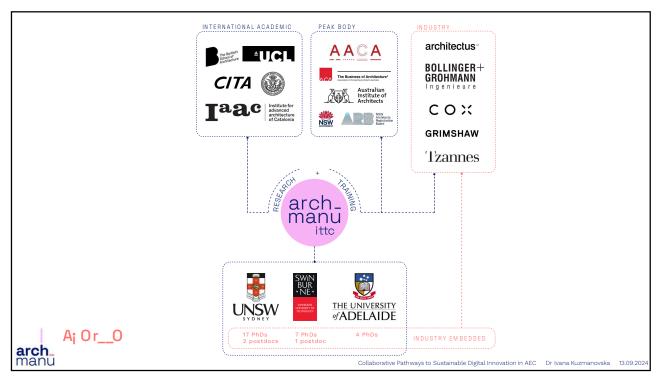


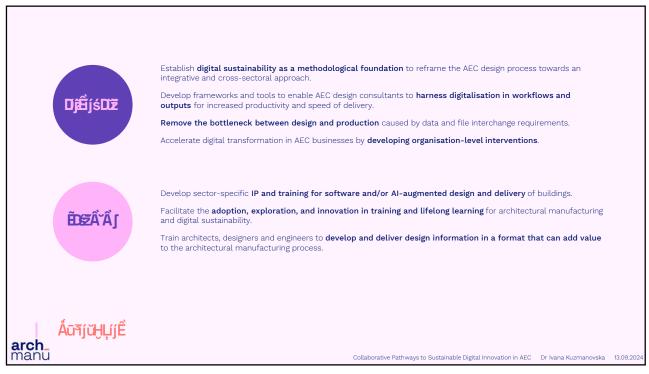




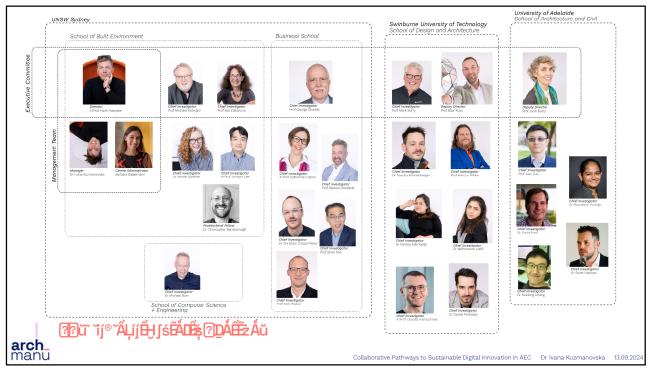




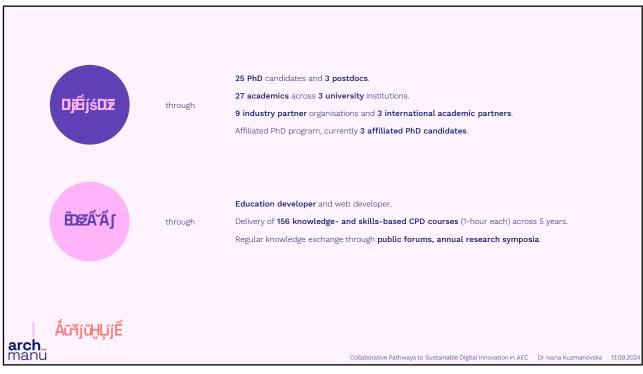


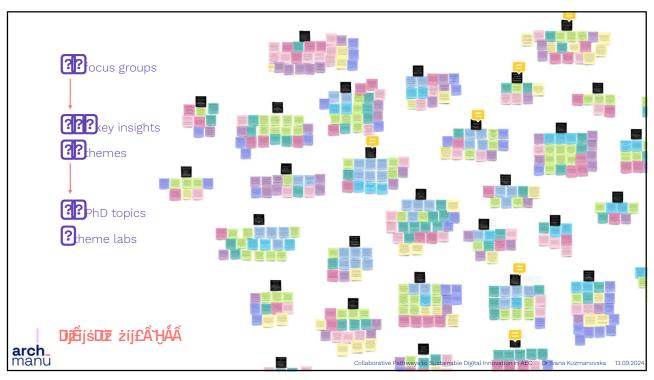


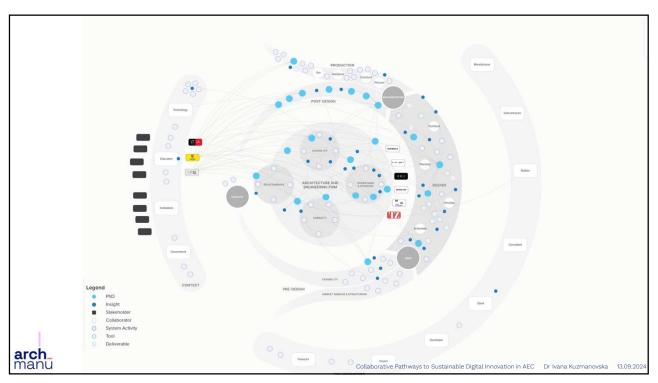


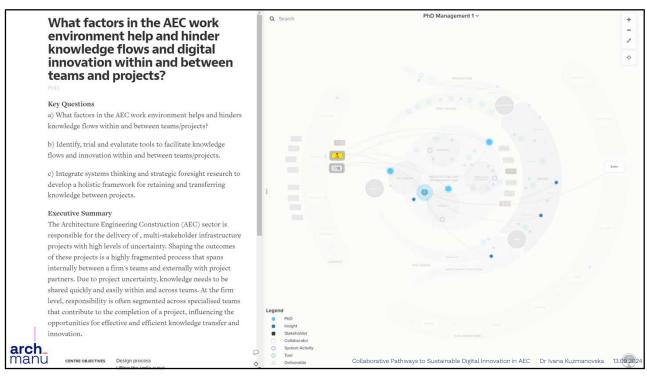














AÂŚĂŊŲČÊGŚŪŞo j ĂjujăĒÂÂÂŚDŊŁ

;~U_ÁD~ŭ?

Harvesting design data embedded in past AEC project documentation.

; ~U _ÁƊ~ŭ?

Predictive modelling for scenario planning through leveraging design data.

;~U_ÁD~ŭ?

Knowledge accessibility, interoperability, and security of practice data (considering errors, risks, file sharing).

;~U_ÅD~ŭ?

Practical, legal, ethical, and commercial frameworks affecting storage, accessibility, security of design data.

Value proposition definition and articulation using new and emerging technology.

;~U_ÁD~ŭ?

Barriers and implications of new technology adoption in the sector (considering individuals, teams, organisations).

Application of digital twin concept towards a simulation of architectural manufacturing prior to construction.



31

>NÃË íjÊÊ6śūş o j~ ĂjĻíjĂÊÎÂÂŚDŅŁ

Leveraging automation to achieve project goals and preserve knowledge in the AEC sector.

Computational methods and AI in AEC: Enhancing sustainability outcomes and optimising value creation.

;~U_ÁD~ŭ?

AEC technology to optimise data organisation, collaboration and content sharing.

Designers and LOD/BIM: Overcoming challenges, enhancing sustainability and integrating building systems.

Effective strategies for enhancing collaboration among actors in AEC sector.

Modern methods of construction and data analysis: reconsidering pre-production and production processes.

Using historic AEC data to achieve more sustainable and efficient future projects.



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{ śÂś∫íj íjÂĚ6śūṣ o~j~ ĂjĻíjĂÊÌÂÂ ŚĐŅŁ

;~U_ÁƊŭ?

Improving knowledge flows and digital innovation within / between teams / projects in AEC work environments.

; ~U _ÅD~ŭ [?

Learning mechanisms + change processes for digital transformation + organisational performance improvement.

;~U_Á̈Ḍŭ?

Addressing roadblocks to business model innovation in the sector.

;~U_ÁD~~?

Identifying proactive measures firms should take when preparing for the potential future scenarios.

;~U_ÅDïŭ?

 $\label{lem:decomposition} \mbox{Demands, forces, and stakeholder agency towards industry transformation.}$

;~U_ÁD~ŭ?

Digital capabilities and information systems for overcoming challenges in digital transformation.

:~U ÁD~ur?

Impacts of sustainability pressures on the sector and its business models, considering the building life cycle.

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