



Virtual Worlds and Virtual Productions

Who am I?

Nico Patz
Coordinator
of EC-funded Innovation project
XReco.eu





Together, We Create!

The XR Media Ecosystem

Co-financed by the EC under
Grant agreement ID: 101070250

Atos

Capgemini



Continental



Made for minds.

FPD PRODUCTIONS

FINCONS
FINCONS
GROUP



ip rights.gr
Intellectual Property Law & Practice in Greece
Copyright | Designs | Patents | Trademarks

JOANNEUM
RESEARCH

KU LEUVEN

MOG
DIGITAL MEDIA



Rai

Sound



University
of Basel



XR3

Zaubar

Project Vision

XReco will pave the way for lifting the use of XR media content from being occasionally involved in media production to being regularly integrated in the media industry.



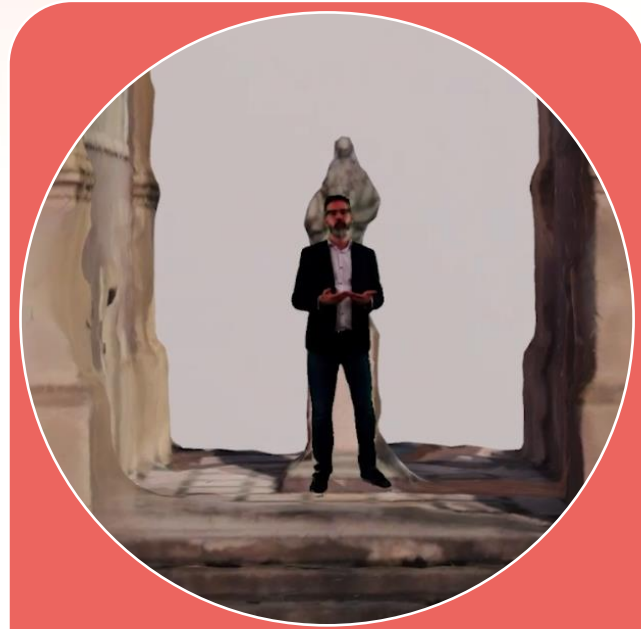
Towards Virtual Worlds



**TV
Production**



**Virtual
Production**



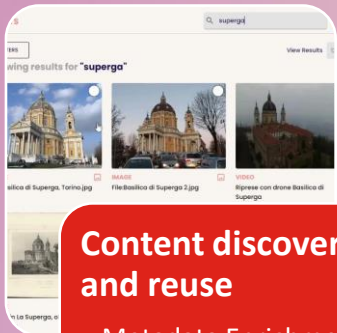
**Virtual
World**



The Ecosystem

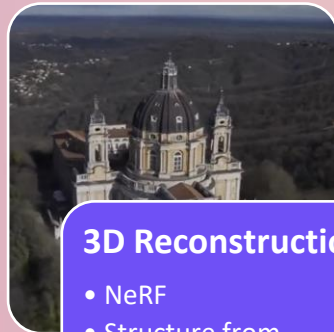
B2B Platform for
Creating
Managing
Sharing

- 3D Assets/ Scenes and
- XR Experiences



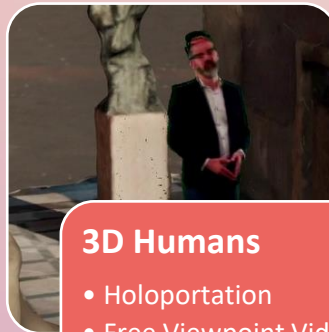
Content discovery and reuse

- Metadata Enrichment
- Context-based Search
- Metasearch



3D Reconstruction

- NeRF
- Structure from Motion
- Gaussian Splatting



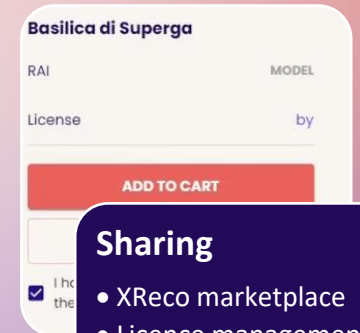
3D Humans

- Holoportation
- Free Viewpoint Video
- Offline Volumetric Video



Authoring


- XR Capsule
- Unity 3D (XReco style)
- AR Authoring



Sharing

- XReco marketplace
- Licence management
- Smart Legal Contracts

Factsheets for all XReco technologies

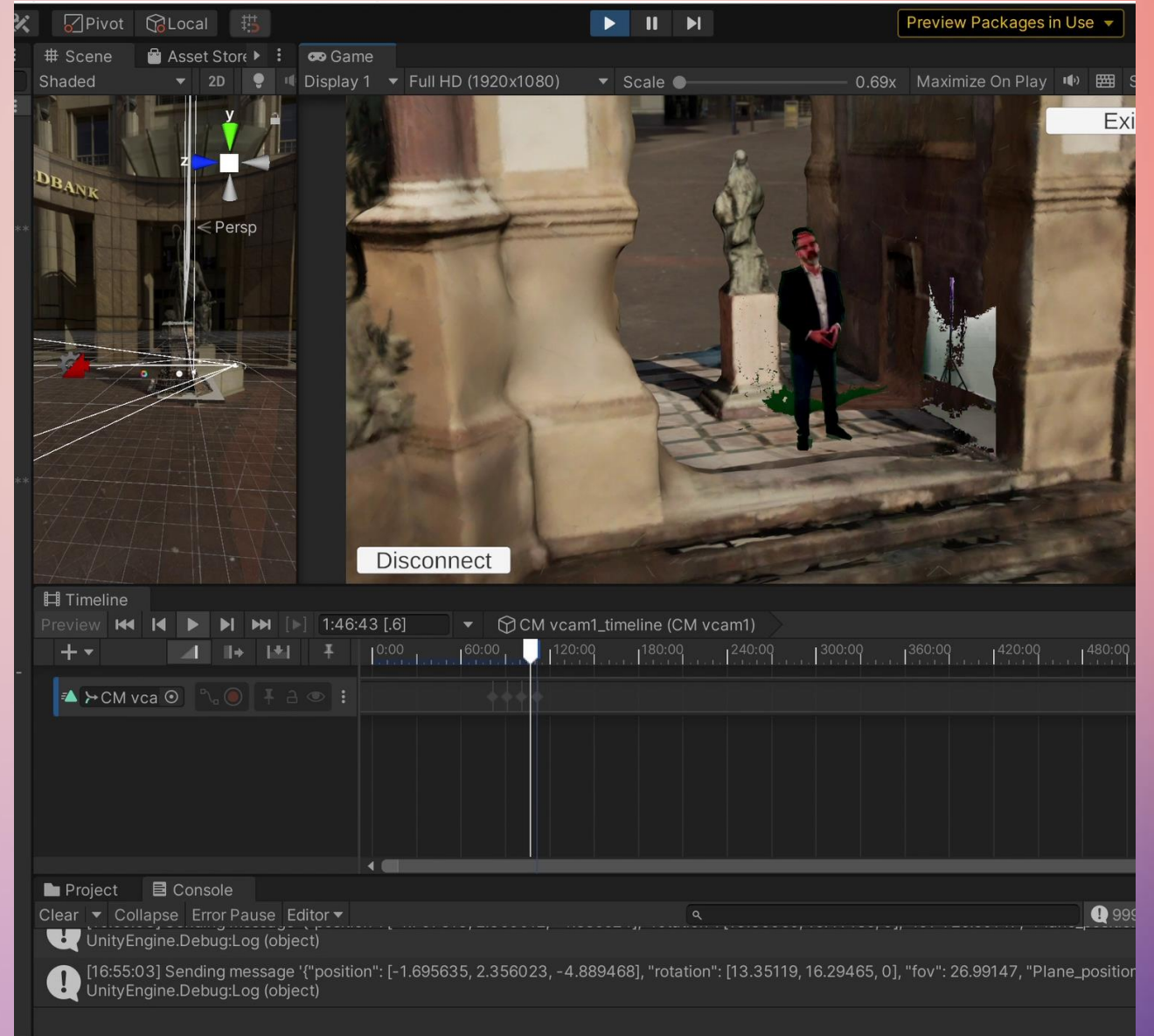


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News
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Technologies
- Neural Media Repository (NMR)
- (3D Object) Reconstruction
- 3D Humans
- Authoring Tools
Outcomes & Resources
Newsletter

Find all the facts

AT xreco.eu/technologies

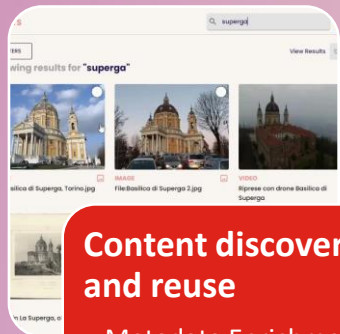
Virtual Studio Productions



The Ecosystem

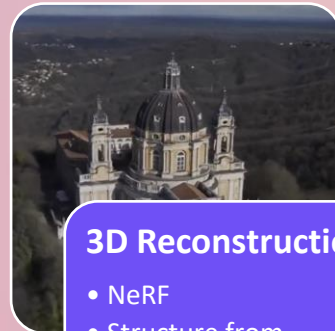
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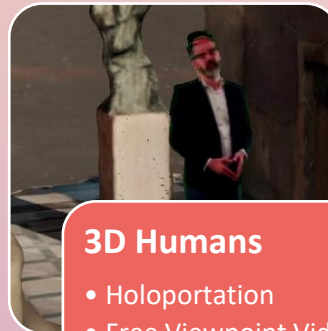
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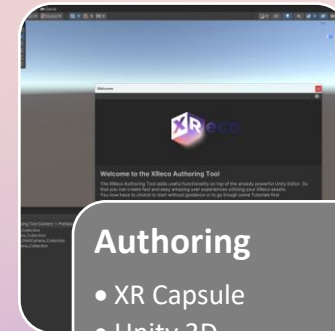
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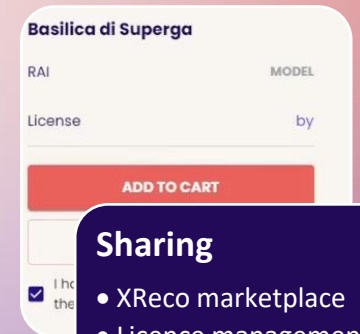
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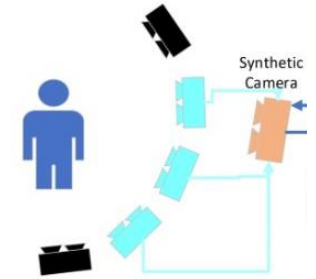
Capture presenters in 3D

- Holoportation
- Free Viewpoint Video
- Offline Volumetric Video



Virtual Production with Free Viewpoint Video (FVV)

- Simple greenscreen setup with 9 sensors
- Deep learning to improve the segmentation of our FVV content
- Director decides on viewpoints AFTER production to provide natural spatial view
- Integrating FVV in a Virtual Studio in Unity3D
XReco enables fully virtual production

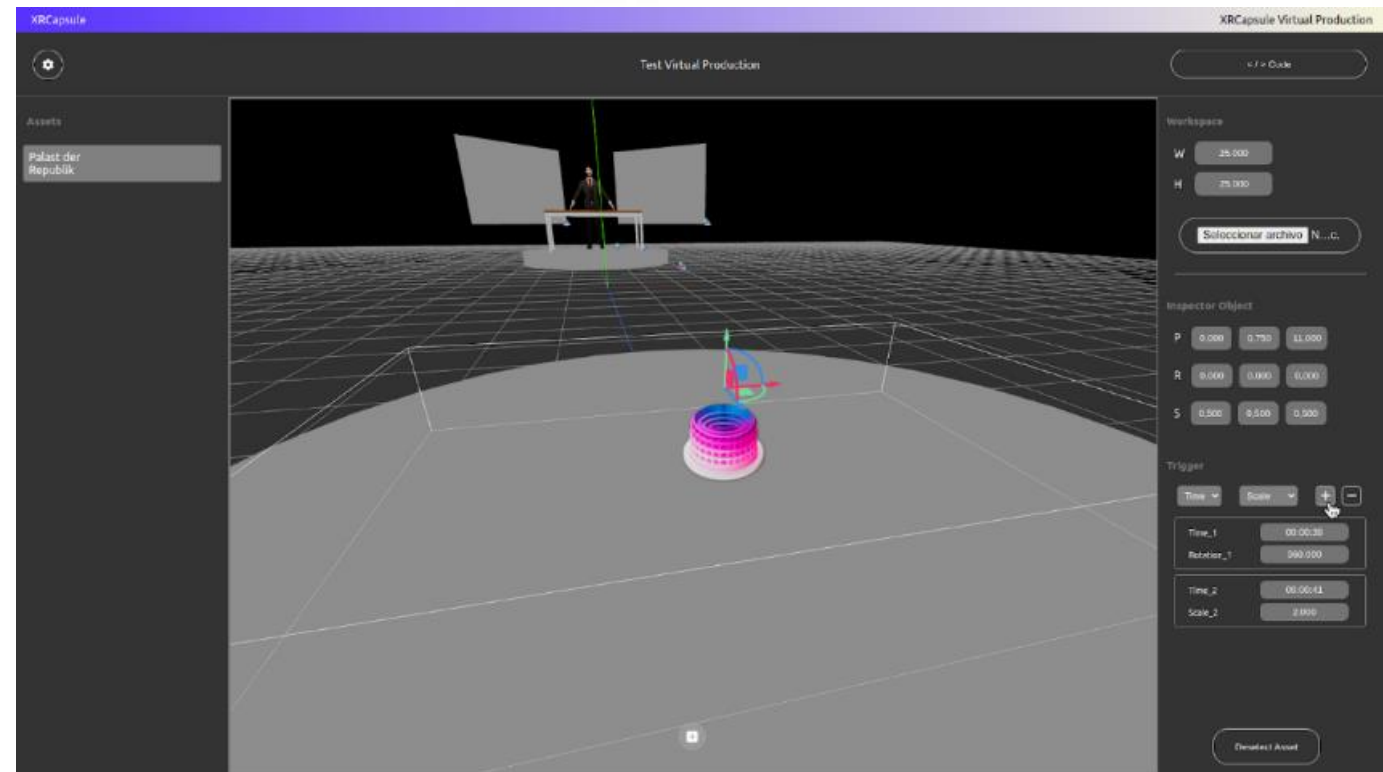


Authoring



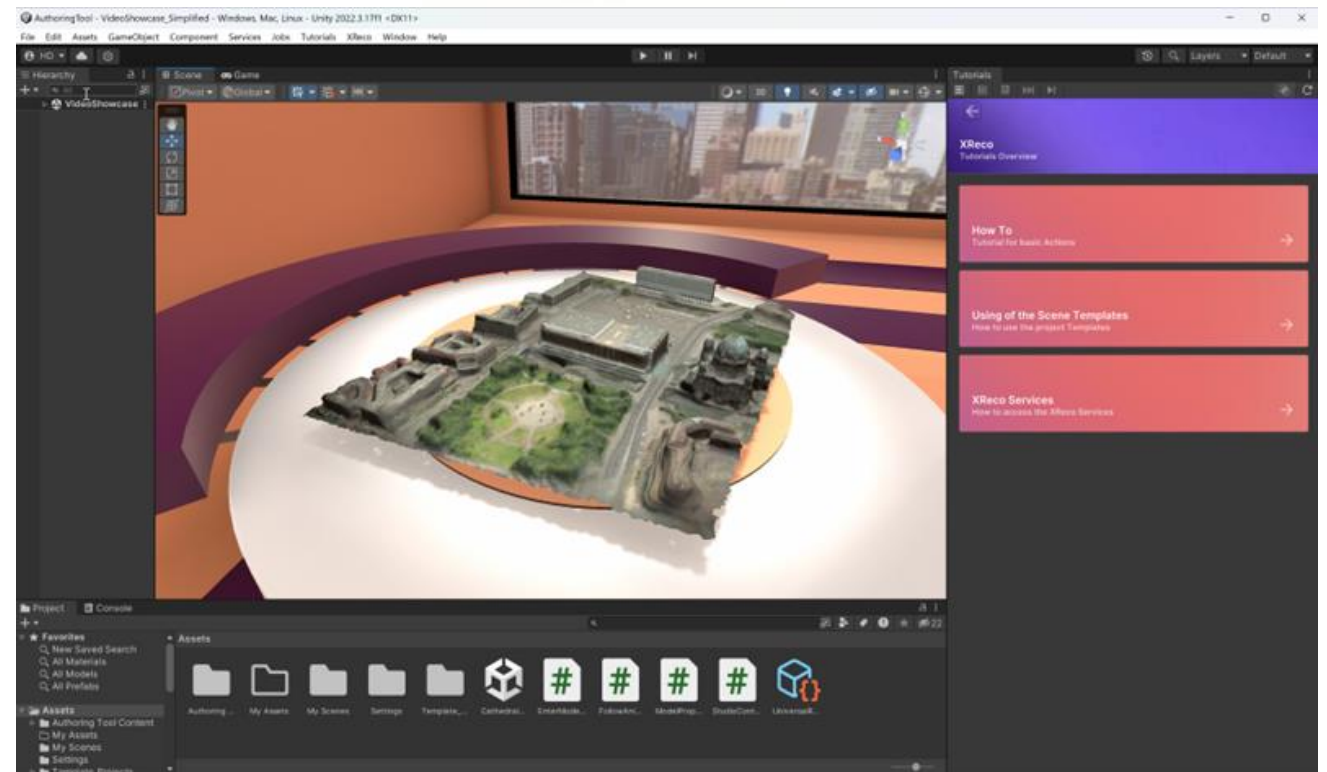
XR Capsule

- Create XR content without coding skills
- Simple interface
- Predefined templates
- Export to Unity



XRReco @Unity3D

- Create XR content without coding skills
- Simplified interface
- Tutorials
- Predefined templates
- Assets directly from XRReco



Towards Virtual Worlds



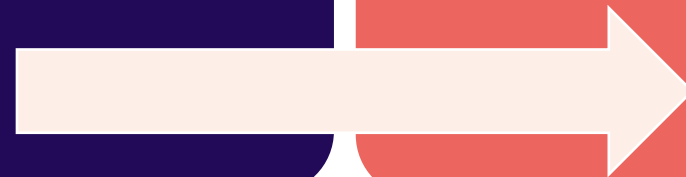
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