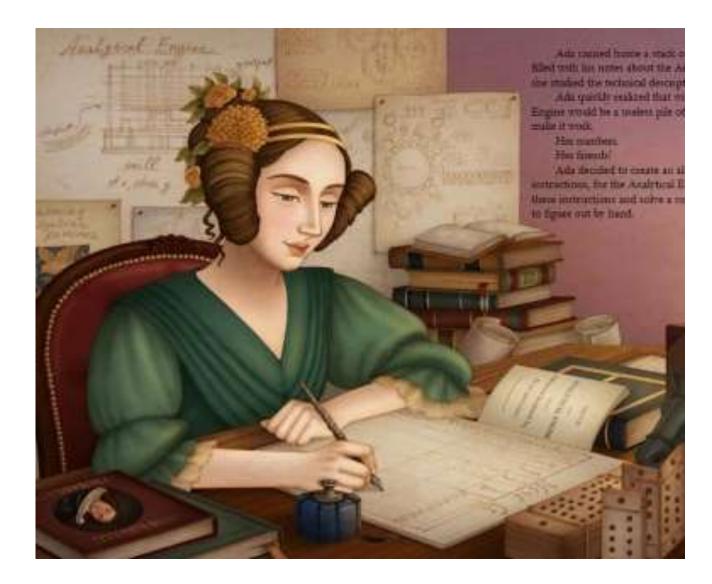


NVIDIA OMNIVERSE COLLABORATION AND SIMULATION PLATFORM

Timo Livistö HP Sales Specialist

Ada Lovelace





3D WORKFLOWS ARE ESSENTIAL FOR EVERY INDUSTRY 40 MILLION CREATIVE DESIGNERS WORLDWIDE

AECO

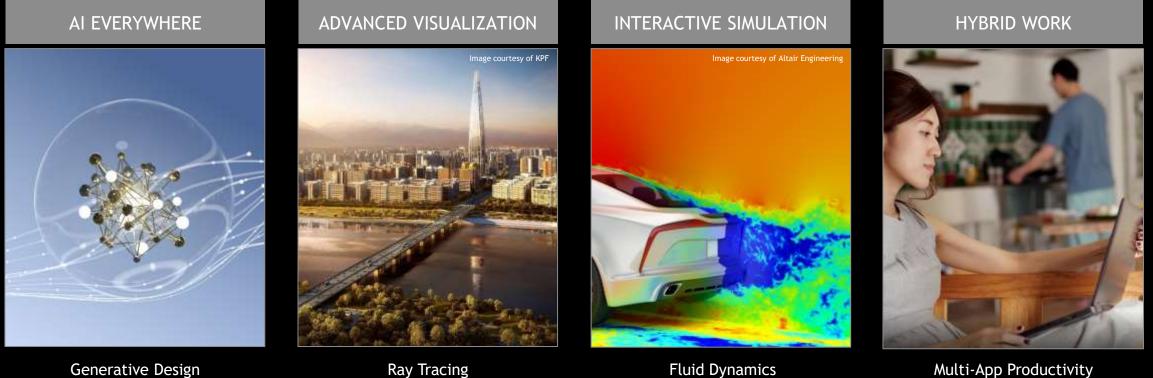
SCI VIZ

Pronrio Vision

M&E



VISUAL COMPUTING WORKFLOW COMPLEXITY AI, 3D, SIM, RENDER, REMOTE WORKING



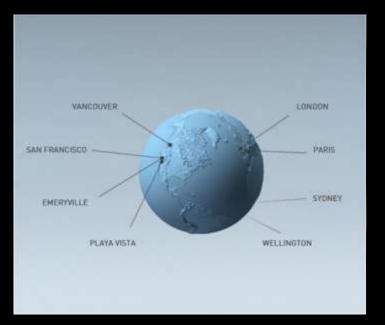
Digital Twins

Generative Design **Content Creation**

Ray Tracing ÁR, VR

Multi-App Productivity **Remote Access**

3D DESIGN IS AN EXTREMELY COMPLEX TEAM SPORT



Large, Geographically Distanced Teams

The new normal



Many Vendors, Many Tools

Incompatible tools and file formats tedious import-export and iteration Mistakes time lost model decimation needless iteration



3D Workflows Rising in Complexity

Computationally demanding workflows real-time ray tracing AI physically accurate simulation Data too large to propagate WW

DIGITAL TWINS, THE METAVERSE

AI DRIVEN VIRTUAL WORLDS ARE GOING TO BE ESSENTIAL FOR EVERY INDUSTRY



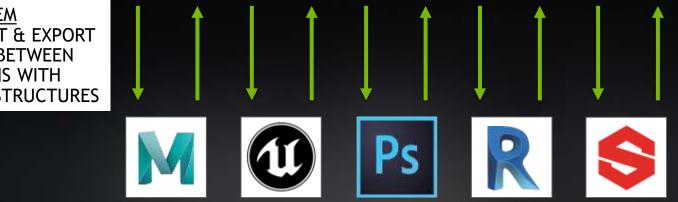
OMNIVERSE COLLABORATION

SINGLE USER INEFFICIENCY

Artist Workstation



PROBLEM MULTIPLE IMPORT & EXPORT OF CONTENT BETWEEN APPLICATIONS WITH DIFFERENT FILE STRUCTURES



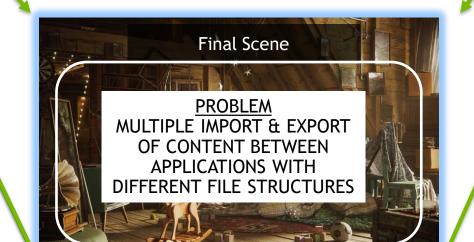


Props Vancouver

MULTI-USER COLLABORATIVE INEFFICIENCY



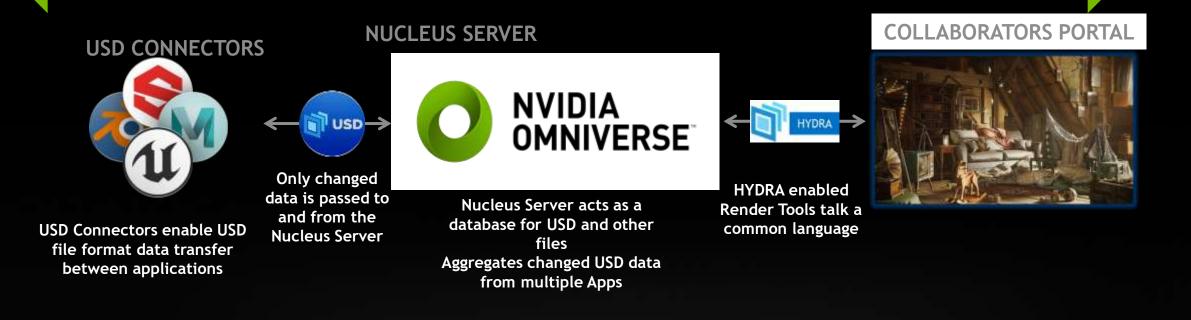






A NEW ERA OF COLLABORATION AND SIMULATION

SINGLE USER & MULTIPLE USER APPLICATION COLLABORATION "Standard ISV Applications With USD Connectors"





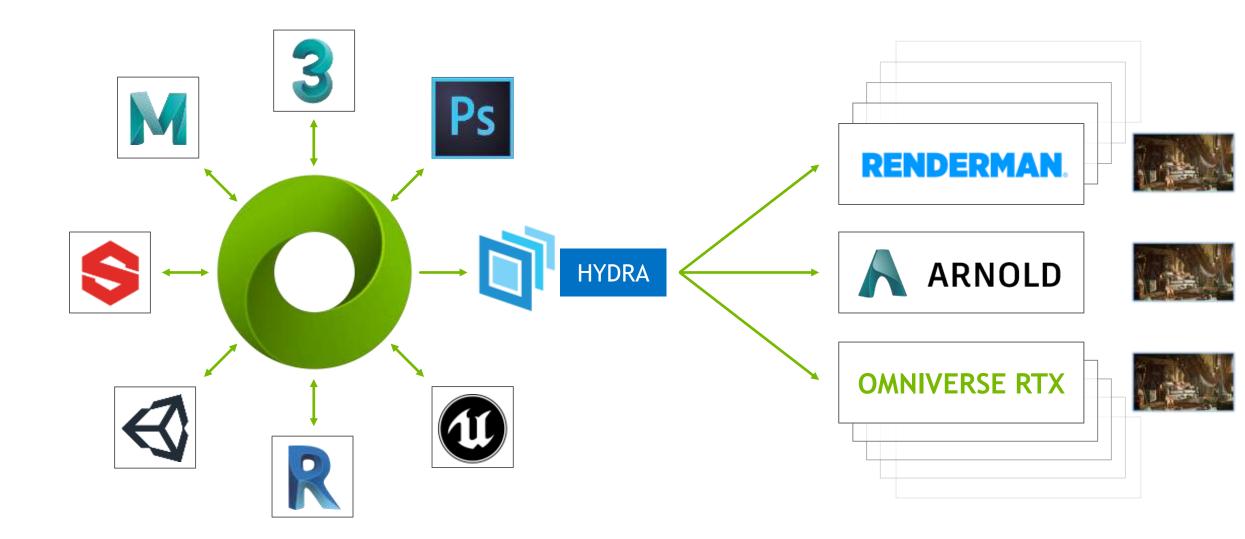


UNIVERSAL SCENE DESCRIPTION

The "HTML" of 3D Virtual Worlds

- Developed by Pixar
- Foundation for NVIDIA Omniverse
- Open-sourced API and file framework for complex scene graphs
- Easily extensible, simplifies interchange of assets between industry software
- Introduces novel concept of layering
- Enables simultaneous collaboration for large teams in different department working on the same scene
- Originated in M&E, now becoming a standard across industries including AEC, Manufacturing, Product Design, Robotics

CONNECT APPLICATIONS THROUGH USD - RENDER TOOLS THROUGH HYDRA



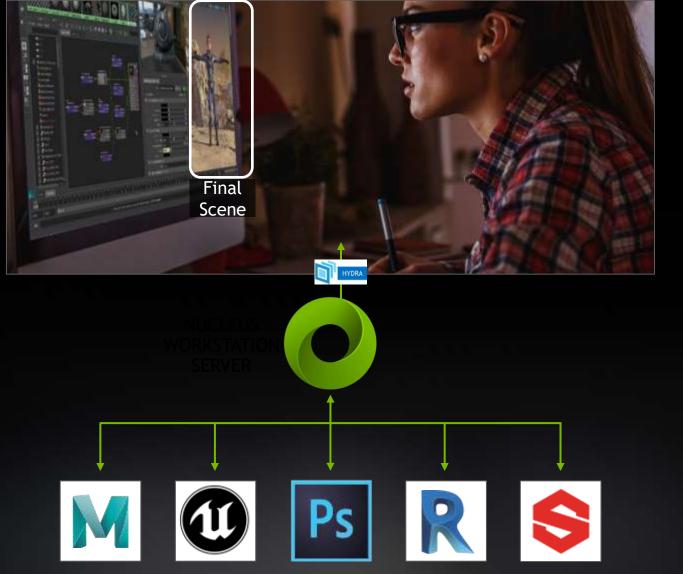
MULTIPLE WAYS TO CONNECT TO OMNIVERSE

Please Check For The Latest On Production and Beta Connectors Here



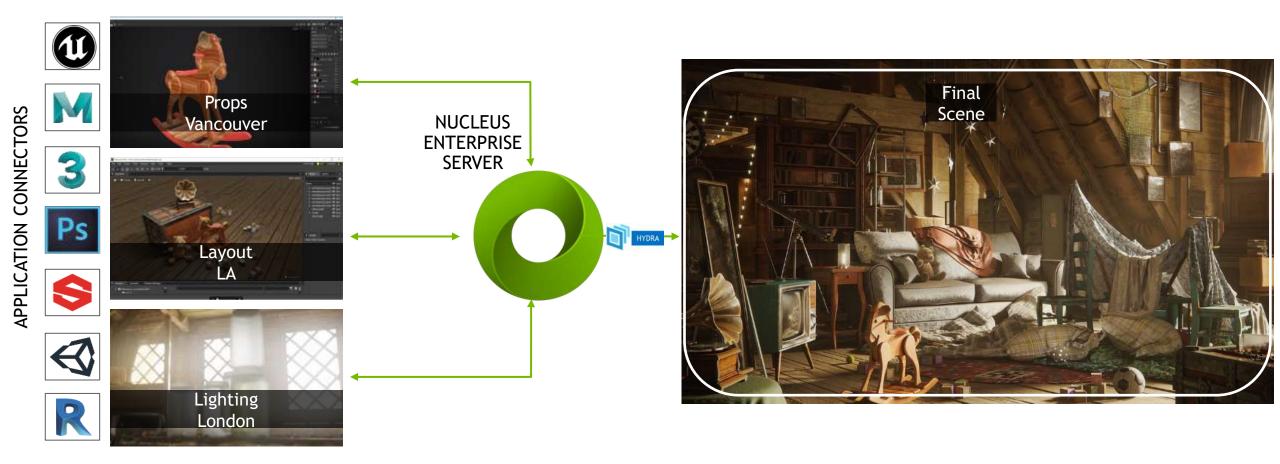
OMNIVERSE INDIVIDUAL - STANDALONE

Artist Workstation

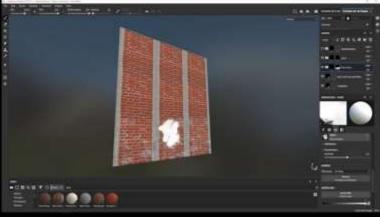


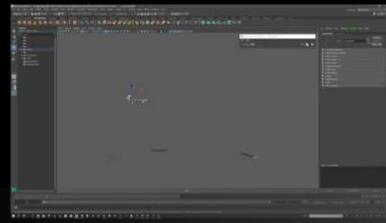
APPLICATION CONNECTORS

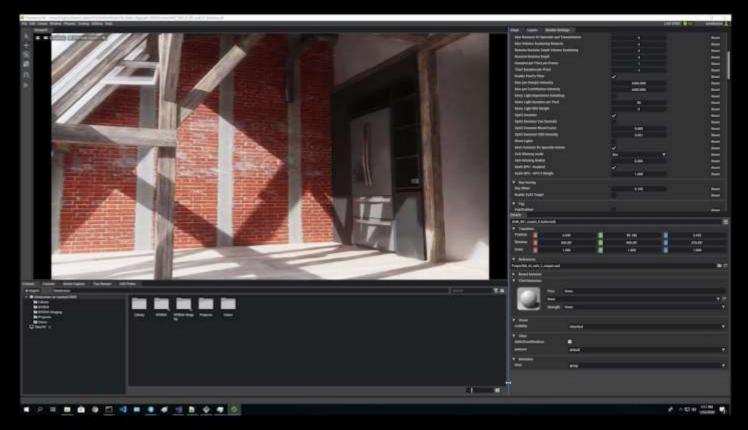
OMNIVERSE ENTERPRISE - ACROSS TEAMS





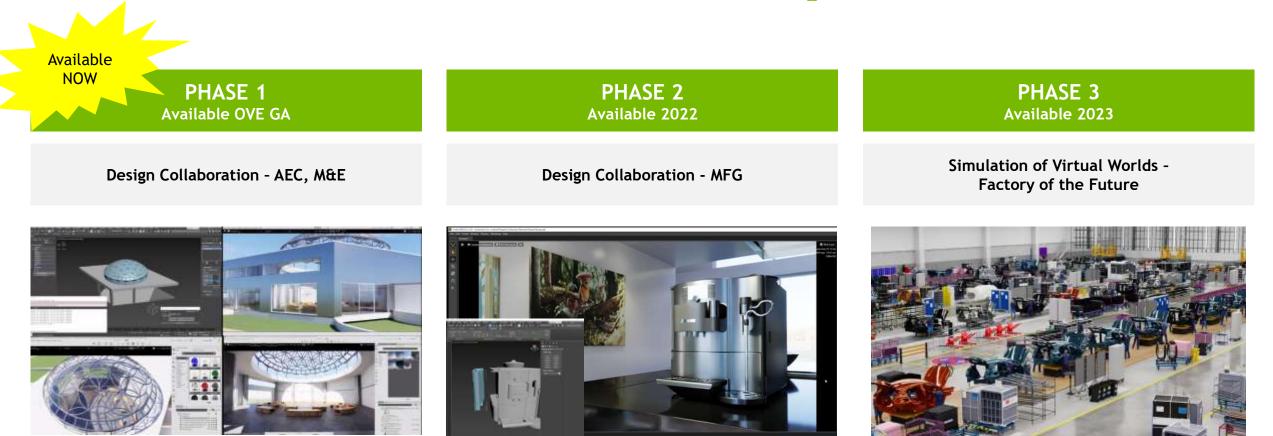






TEAM COLLABORATION

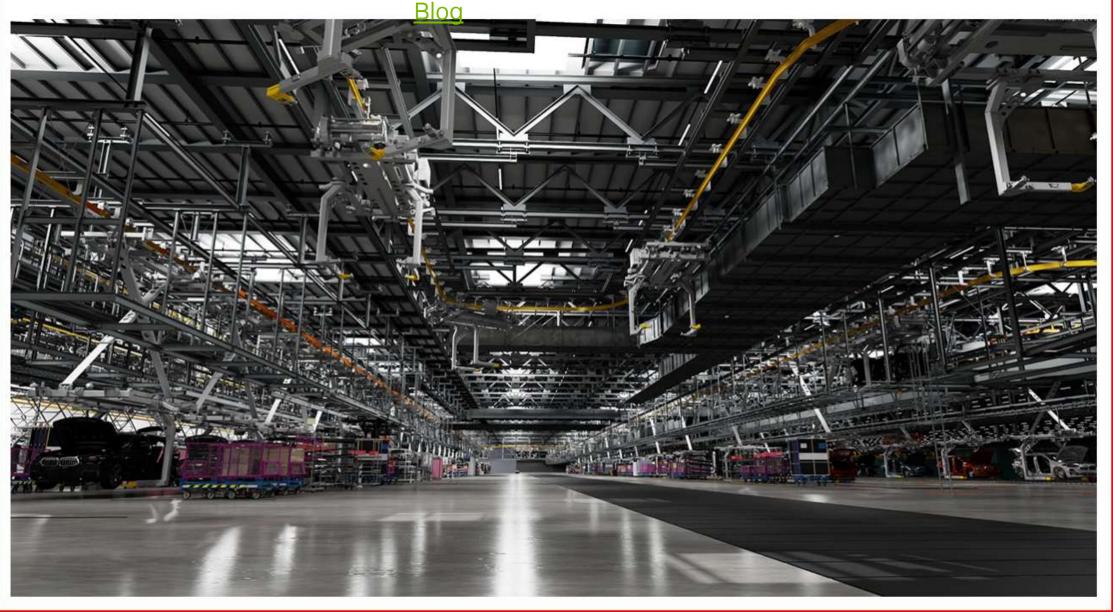
OMNIVERSE Roadmap



NVIDIA, BMW Blend Reality, Virtual Worlds to Demonstrate Factory of the Future

April 13, 2021 by BRIAN CAULFIELD

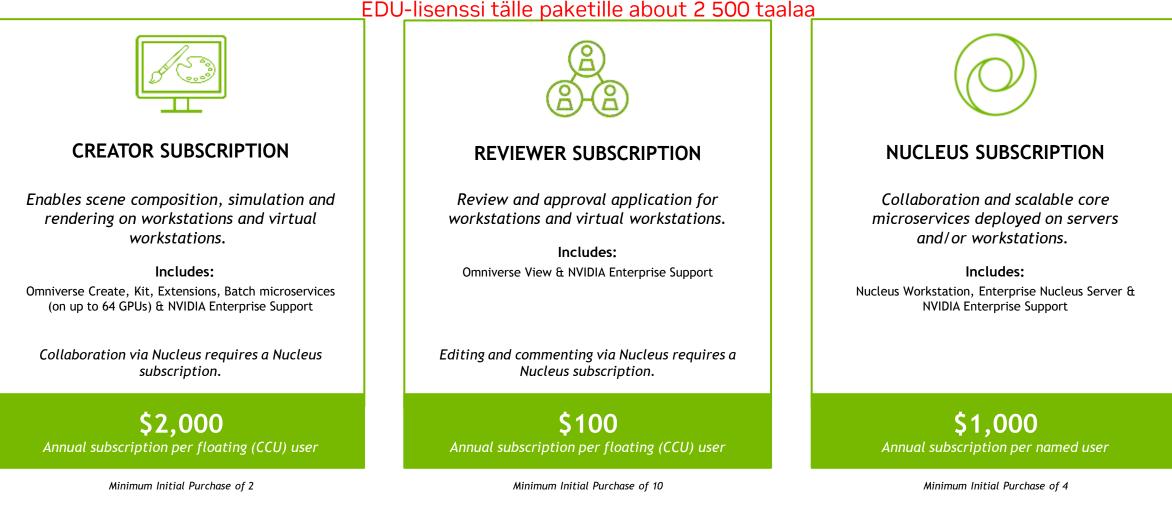
BMW Omniverse





OMNIVERSE ENTERPRISE SUBSCRIPTIONS

Starting at \$9,000 per year for minimum initial purchase



All subscriptions include Enterprise Launcher & Enterprise Connectors.

WHICH SUBSCRIPTION(S) DO YOU NEED?

] ~~~~~	
	Omniverse Enterprise Creator Subscription	Omniverse Enterprise Reviewer Subscription	Omniverse Enterprise Nucleus Subscription
User Persona / Activity	Minimum Initial Purchase of 2	Minimum Initial Purchase of 10	Minimum Initial Purchase of 4
Designing with Kit/Create, 3rd party tool(s) and collaborating via Nucleus	\checkmark		\checkmark
Designing using <u>only</u> 3rd party tool(s) and connecting to Nucleus for collaborating			\checkmark
Viewing, commenting and making minor edits, e.g. textures, using View		\checkmark	\checkmark
Viewing only using View		\checkmark	

<u>All</u> creators/designers require a (named user) Nucleus subscription for collaboration.

Reviewers that comment and/or make edits via Nucleus also require a (named user) Nucleus subscription.

30 DAY EVALUATION

Customer-driven, NVIDIA-delivered, 30-Day Trial

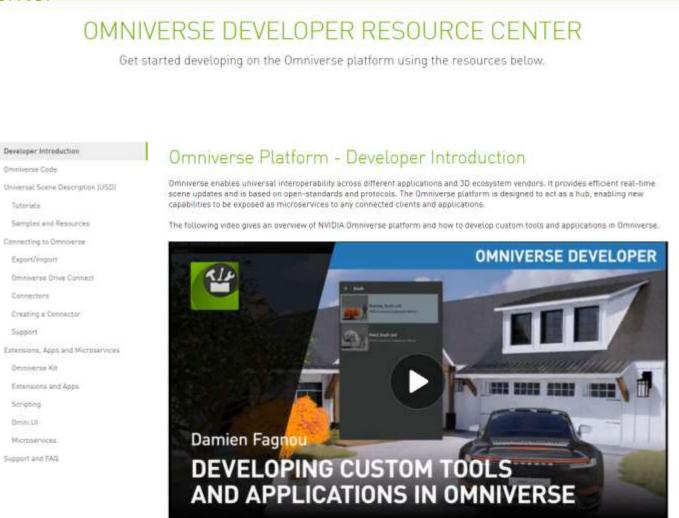
- Eval licenses available from nvidia.com
- Automatic delivery via NVIDIA License Portal
- Option to have 30-day extension



https://www.nvidia.com/en-gb/omniverse/enterprise/free-trial/

OMNIVERSE DEVELOPER RESOURCE CENTER

https://developer.nvidia.com/nvidia-omniverse-developer-resourcecenter

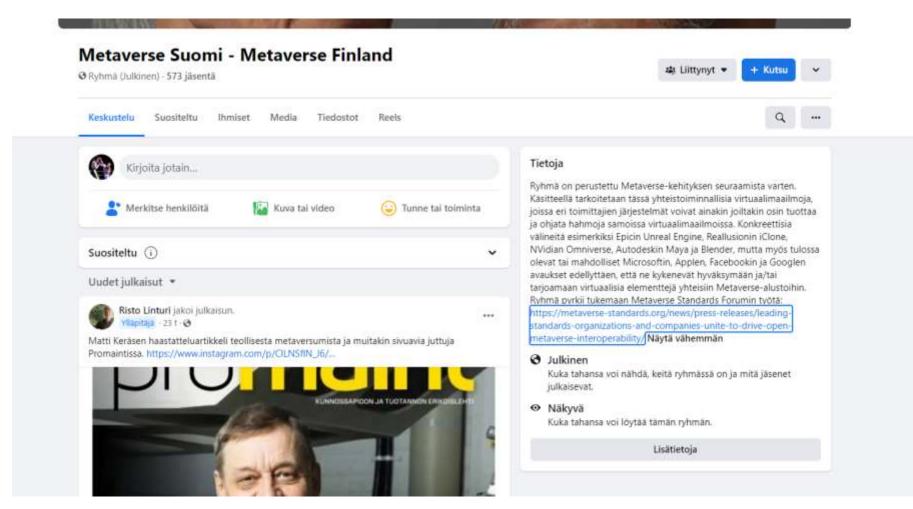


Tutorials

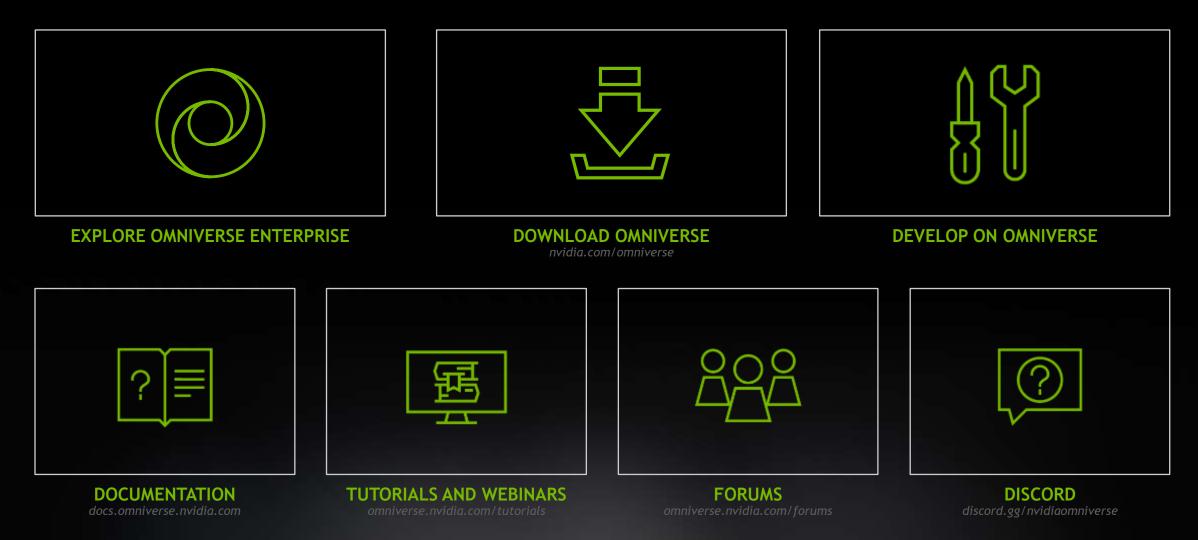
Support.

Scripting Omini UI

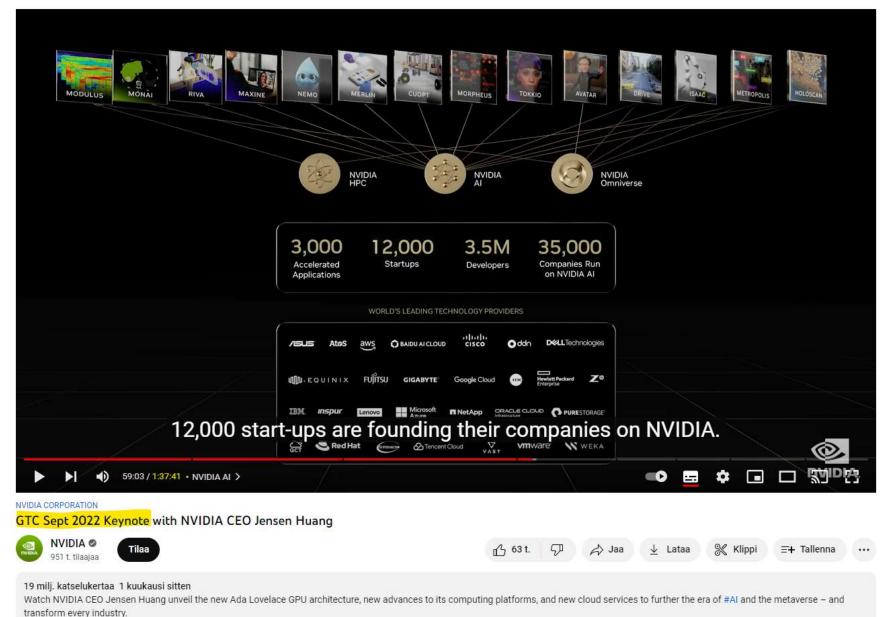
Metaverse suomessa



SEE YOU IN OMNIVERSE



GTC Sept 2022 Keynote 19:36-37:10 (Omniverse)



Näytä lisää

🧆 NVIDIA.

SUMMARY

- Omniverse is a tool for multiuser collaborative visual workflows and AI simulated Worlds
- RTX technology is required to produce AI augmented photorealistic rendered scenes
- Enabled by Pixar's innovative USD file format
- Omniverse is available free for individuals and licensed for multiple user collaborative and digital twin environments
- The minimum initial order is a \$9000 "Starter Pack" of 2 Creator Subscriptions, 4 Nucleus Subscriptions and 10 Reviewer Subscriptions
- Agreement signed by HP to resell licenses, first deal is in. Zaha Hadid Architects.
- NVIDIA is here to help you win.





Thank you