



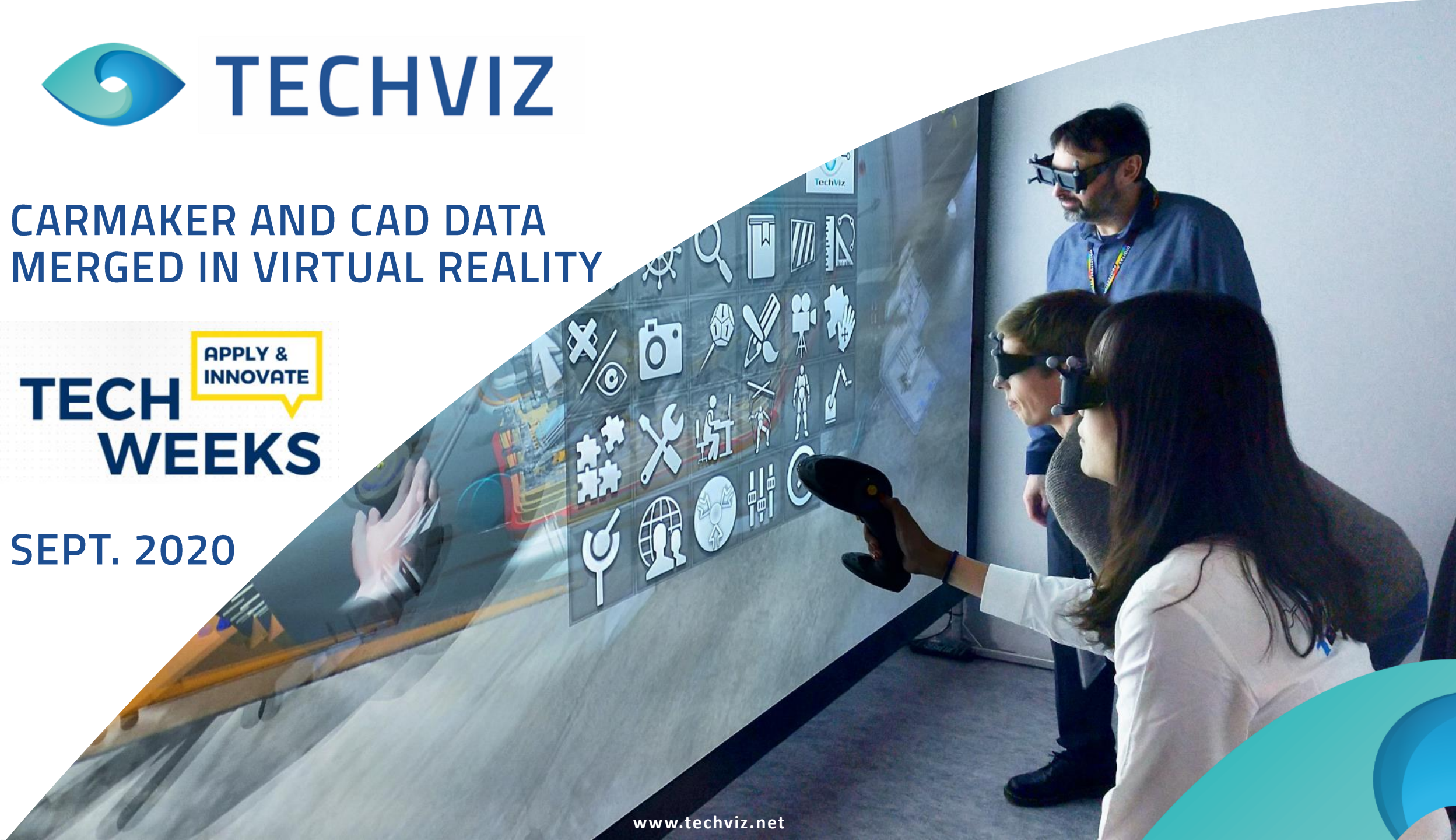
TECHVIZ

CARMAKER AND CAD DATA MERGED IN VIRTUAL REALITY

APPLY &
INNOVATE

TECH WEEKS

SEPT. 2020





TECHVIZ

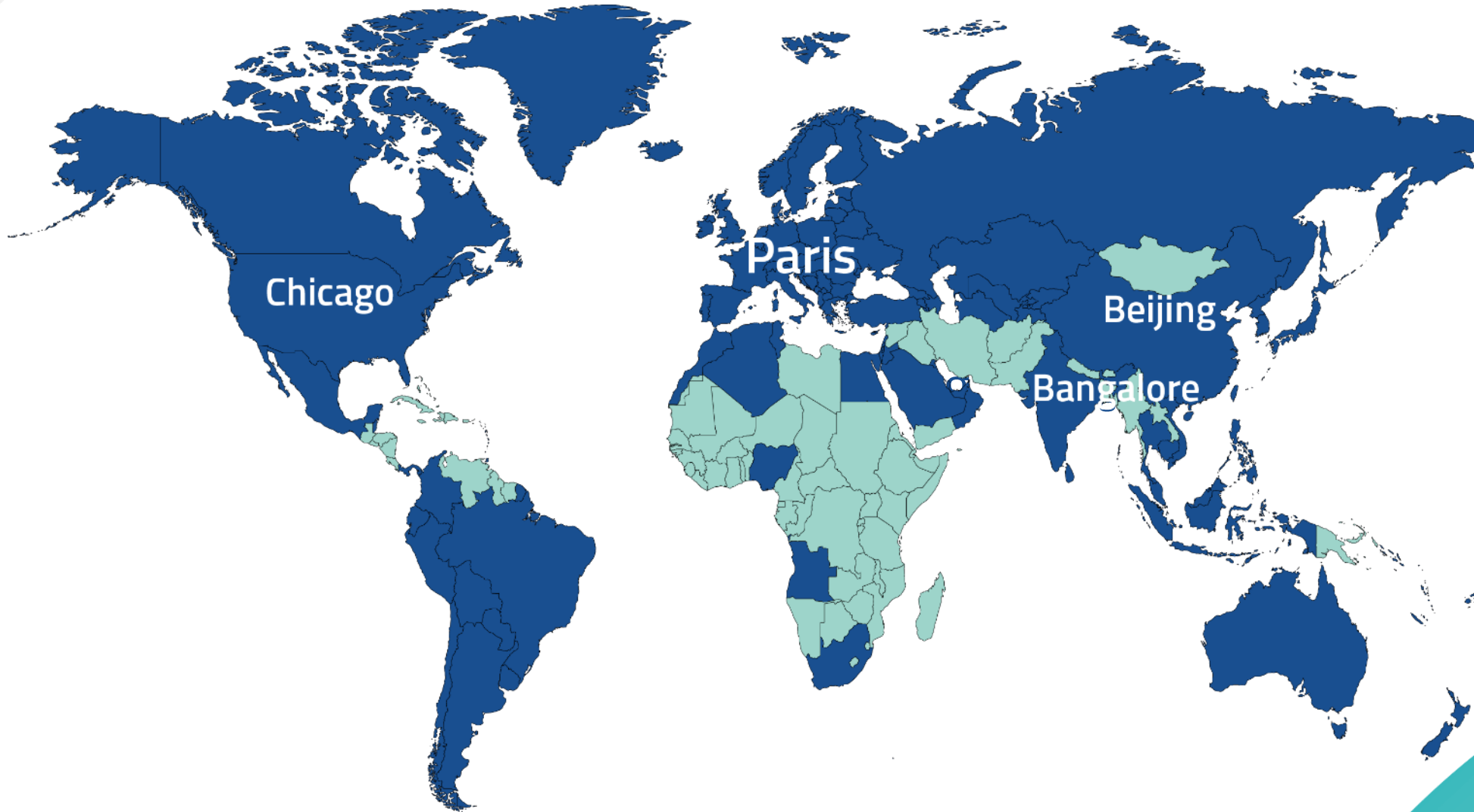
INTRODUCTION

FAIL FAST
FAIL EARLY



TECHVIZ

TECHVIZ, PIONEER IN VR SINCE 2004



www.techviz.net



TECHVIZ

INSTANT VR & COLLABORATION SOFTWARE



◀ NO DATA CONVERSION

- Visualize and modify your model in **real-time**
- More than **200 compatible applications** (Catia, Creo, NX, Navisworks and many more)



◀ UNIVERSAL VR SOLUTION

- Compatible with **all VR displays:** headset, powerwall or immersive room,
- **High performance** for largest models
- Top level data **security** for multisite collaboration



◀ MADE FOR ENGINEERING

- Comprehensive set of **features** to accelerate development cycles
- Fully **integrates** in existing engineering processes:



TECHVIZ

COMPATIBLE WITH 200+ APPLICATIONS

CAD / GENERAL SOFTWARE (PER EDITOR)

DASSAULT SYSTEMES		PTC		SIEMENS PLM		AUTODESK			
3DExcite DeltaGen	Dymola	Creo	I-DEAS	3ds Max					
3DExcite DeltaView	eDrawings Viewer	Creo Elements	JT2GO	Alias					
3DVia Composer	Enovia DMU	Creo Direct	Jack	Design Review					
3DVIA Home	GeoVia	Creo Simulate	NX	Image Studio					
3DVia Composer		Creo Illustrate	Plant Simulation	Inventor					
3DXML Player		Creo Parametrics	Process Simulate	MotionBuilder					
3DExperience		View	RobCAD	Moldflow Communicator					
Abaqus		eView	Star-CCM	Moldflow Synergy					
AssetView		view Lite	TeamCenter (VisMockup)						
CATIA V5		ctview express							
CATIA V6									
CATIA Composer	Virtools	Pro/Engineer	Tecnomatix emplant	Revit					
Delmia		Division 2000i2	Tecnomatix empower	Showcase					
			Comos Walkinside	VRED					
HEXAGON		AVEVA		ESRI		ANSYS		SCHLUMBERGER	
SmartPlant	Marine	ArcGIS	CFD Viewer	Eclipse					
Smart FreeView	PDMS	ArcGlobe	CFD Post Standalone	Gigaviz					
Smart Review	Review	ArcReader	CFX/Pre Standalone	Petrel					
Smart 3D	Tribon	ArcScene	Fluent						
		City Engine	Workbench Mech.	IPS Cable Simulation					
PARADIGM		SAP		LANDMARK		ADOBE		ALTAIR	
3D Canvas	Deep Exploration	AssetView	Acrobat	Altair Hypermesh					
GoCAD	Deep Publish	Geoprobe	Acrobat Reader	Altair Hyperview Player					
GeoDepth	Deep View	OpenVision	Adobe 3D Review	Altair Hyperworks					
GeoLog	SAP 3D Visual Entr	SeisWorks							
VoxelGeo	SAP Viewer	StratWorks							
AGI		RTT		GOOGLE		UNITY		CEI	
AGI STK	RTT DeltaGen	Google Earth	Unity	EnLiten					
AGI STK Viewer	RTT DeltaView			EnSight					
				EnVision					

SPECIALIZED SOFTWARE (PER APPLICATION FIELD)

VR/SIMULATION	ANIM./MODELING	3D TOOLKITS	MOLECULAR	SIMULATION	
BSSContact	AC3D	CERV AReVi	Accelrys Discovery Studio	Ansa	
Ciros	Blender	Cortona 3D viewer	Cambridgesoft Chem3D	CD-Adapco Starview	
Corys T.E.S.S.	Lumiscaphe	C-Motion Visual 3D	Material Studio	Ceetron GLView	
Cosmo Player	Portfolio 3D	Coin3D	MED-SuMo	COMSOL Multiphysics	
DI-Guy	Patchwork 3D	Java3D	PyMol	Edem	
DiSTI GL Studio	Luxology modo	JoGL	Schrodinger Maestro	FieldView	
Dspace Motion Desk	MAXXON Cinema 4D	OGRE	VMD	GNS Animator	
	N-Sided Argile	OpenSceneGraph		LMS Virtual.Lab	
Dolphinity racer	Rhino 3D	SGI Open GL Perf.	ARCHITECTURE		
Eon Studio	Sidefx Houdini	TF OpenInventor	ArchiCAD	LS-Dyna	
FlexSim	CAD		CET Furniture Design	Meta	
FlightGear	Bentley Microstation 8.1	VTK	Solibri IFC Viewer	MentorGraphics FloVIZ	
Forum8	Cadenas 3D	XJ3D	EliteCAD	Meshworks	
Octaga Player	eBrowser	Open TK	Ikea Home Planner	Moldex3D	
OpenDS	SCIENTIFIC		Enscape	MSC Adams	
Oktal SCANer	Kompas 3D	AVS	Nemetschek Allplan	RecurDyn	
Presagis Thea Lite	Lattice XVL Player	Avizo	Tekla BIMsight	Tass MADYMO	
Presagis Vega Prime	Lattice XVL studio	Celestia	EveBIM	Thaitemr	
Virtual BattleSpace	Nupas Cadmatic	MountainMap	MEDICAL		
Vortex	Sener Foran	K3DSurf	Amira	POINT CLOUD	
WorldViz	Topsolid	Matlab	Bone Labs	Bentley Pointools	
GIS		MeshLab	Brain Explorer	Acute3D	
3DNature	DMWorks	MeVisLab	Mito Ditcom	Cloud Compare	
Biosphere 3D	ePlan	MineSet	OIL&GAS		
Skyline TerraExplorer	Haption IFC	Paraview	Geovel	Fledermaus	
	ISG Virtuo	Smart 3D Capture	Opendtect	Infipoint	
AV		VisIt	Roxar RMS	Innovmetric PolyWorks	
Mplayer	Path Planner	Vizlab Drishti	Roxar Tempest	Leica Cyclone	
VLC (Videolan)	Perspectix Px5	MINING		Rapidform	
Stereoscopic Pl.	RAMSIS	CAE Mining	SIM Reservoir	Steinbichler	
TechViz 4K Player	Synchro		SMT VuPak	CometInspect	
	VisLab		Tecplot RS		

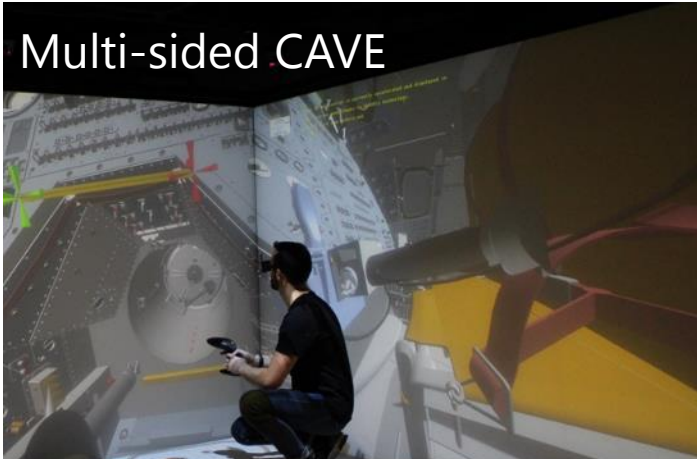


TECHVIZ

COMPATIBLE WITH ALL VR DISPLAY DEVICES

Immersive rooms

Multi-sided CAVE



Cylinder CAVE

Head-Mounted Displays



www.techviz.net

Powerwalls



Portable VR system
Fly&Viz



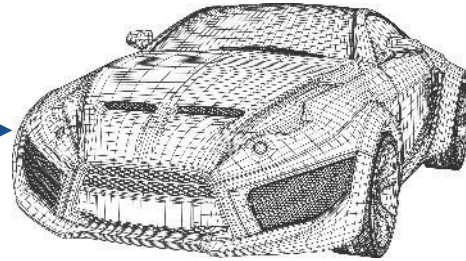
Multi-point of view
projector



TECHVIZ

TECHVIZ FUSION WITH CARMAKER

CAD model



CarMaker environment



Design improvement

in real time



Merged in virtual scene for testing



TECHVIZ FUSION WITH CARMAKER

- ◀ Shorten validation cycle as CAD is directly integrated in the simulation process.
- ◀ Study multiple variants directly in the PLM.
- ◀ Check camera viewpoints as integrated in the CAD.





TECHVIZ

13 + FINGER TRACKING FOR HMI VALIDATION

- ◀ Create a virtual touchscreen by inlaying 2D image stream into the VR scene





13 + FINGER TRACKING FOR HMI VALIDATION

- ◀ Works with CAVE optical finger tracking, gloves or HMD camera (Leap Motion).
- ◀ Allows driving simulation with up-to-date CAD model and real HMI software running live.
- ◀ Easily troubleshoot major integration issues related to HMI+CAD model+Driving simulation.





AND TOMORROW...

- ◀ VR streaming on wireless headsets.
- ◀ Vehicle-in-the-loop, merging real test driving with simulated elements.
- ◀ MR HMD (mixing real images in driving situation with simulated cockpits/car/HMI).





TECHVIZ

THANK YOU

Any question ?
Contact us:
techviz-sales@techviz.net

More information on
TECHVIZ on our website:

www.techviz.net