

The value of VR for professionals

Sébastien 'Cb' Kuntz

CEO







- Virtual reality for professionals
 - Team of VR experts
 - Founded in 2012
- VR Content creation professional services
 - We create your applications
- MiddleVR for Unity: Unity plugin to create VR apps
- Improov3: Virtual meeting room

VR NOT TO ESCAPE REALITY BUT TO IMPROVE REALITY



MPROVE REALITY Sébastien 'Cb' Kuntz



2005 - Virtools Sussener VR Tech Lead

2010 - MiddleVR IMPROVE REALITY

Founder & President



- 220+ clients around the world
 - Industry, academics
 - Engineering, marketing, training, health
- 15+ resellers: US, China, Russia, Japan, England, France, Spain, Italy ...



.middleVR FOR UNITY

- Unity plugin: Features
 - Your application works on any VR system:
 - CAVE, VR-Wall, zSpace
 - HMDs: Oculus Rift, HTC Vive, NVisor, Sensics, ...
 - Haptics: Haption
 - Create your application quickly:
 - Navigation
 - Manipulation of objects
 - Webpage display
 - Menu
 - Graphical user interface



niddlevr For UNITY





niddleVR For UNITY

- Version 1.6
 - "HMD" edition
 - "Free", "Academic", "Pro" editions
 - Multi-GPU support
 - Oculus Rift CV1, HTC Vive
 - Native drivers: A.R.T., OptiTrack, Vicon
 - Immersive menus / GUI
 - Webpage displays
- EASY DOWNLOAD: <u>http://www.middlevr.com/download</u>
- FREE 30 DAYS TRIAL



Future: Roadmap

- Multi-user support
 - Simple avatars: NOW (beta)
 - Simple voice chat: 1 month (beta)
 - Share webpages: 3 months
 - See / share your windows desktop: 3 months
 - Manage online contacts: 6 months
 - Advanced avatars: 6 months
 - Roles: (Example: Guide / visitors)
- Perception Neuron
- Haptic: Sensable Phantom (Geomagic 3D Touch)
- More interactions
- You tell us !



Website in Chinese !





产品 下载专区 公司介绍 首页



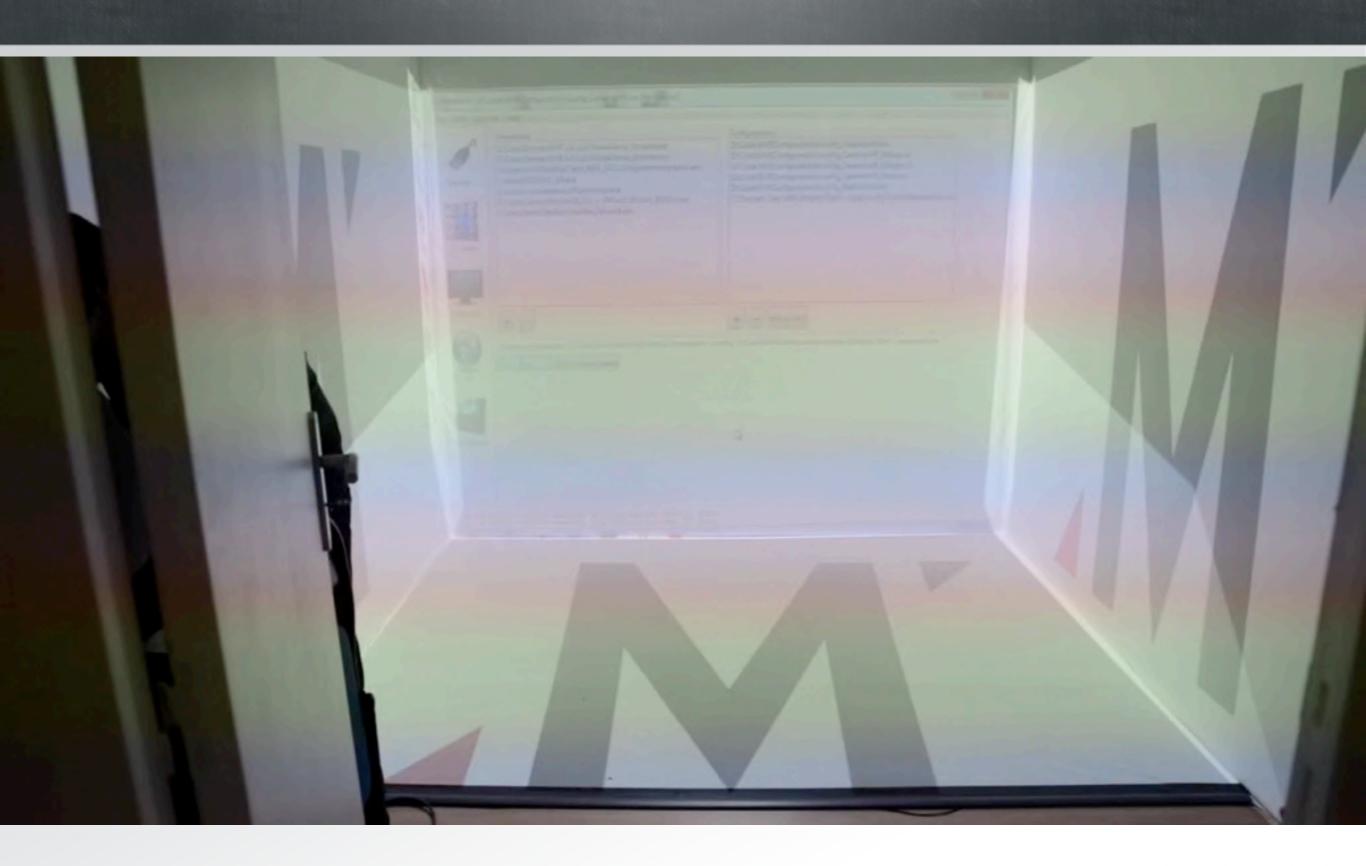






- New market ?
 - No !
 - Peugeot : 7M€ since 1999
 - Renault : New VR systeme 3M€
 - Saves 2M€ / year & 20% reduction in conception time
 - Jaguar Land Rover : 4M€ saved in 5 weeks





MiddleVR





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HARDWARE REVOLUTION





Presence in a virtual world

= Be somewhere else





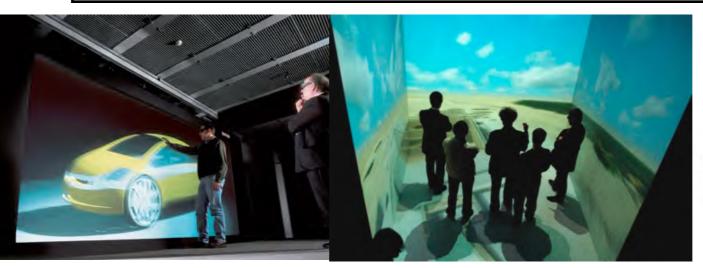




Be somewhere else

WITH somebody else









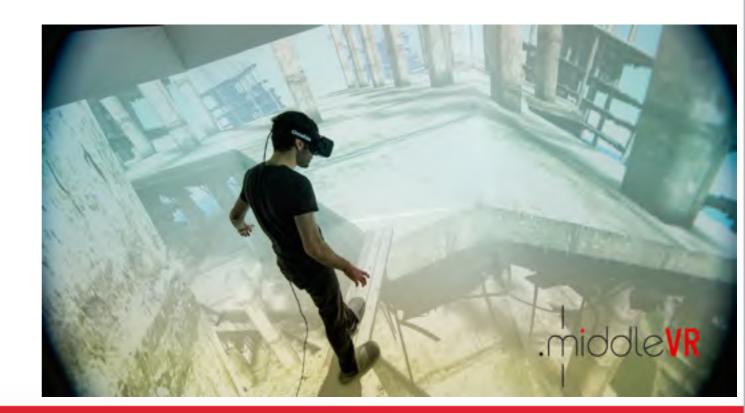




Software revolution

- Engineering
- Marketing
- Training
- Architecture
- Health
- Education
- Social / Multi-user







MARKETING

- Advertisement
- Market studies
 - Evaluate and iterate quickly
 - Store layout
 - Product packaging
- Record / analyse customer





MARKETING BEYOND REALITY

- Virtual showroom
 - Show all variations
 - Limited real space
 - Infinite virtual space







TRAINING / EDUCATION BEFORE VR







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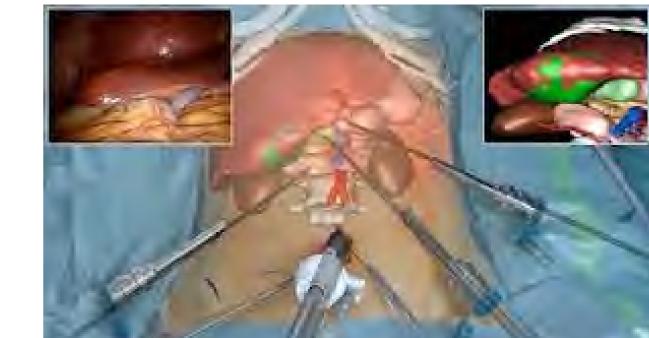
TRAINING

- Military, surgeons, cops, firefighters, mine safety, oil & gas platforms, nurses, building industry ...
- Motivation

MPROVE REALITY

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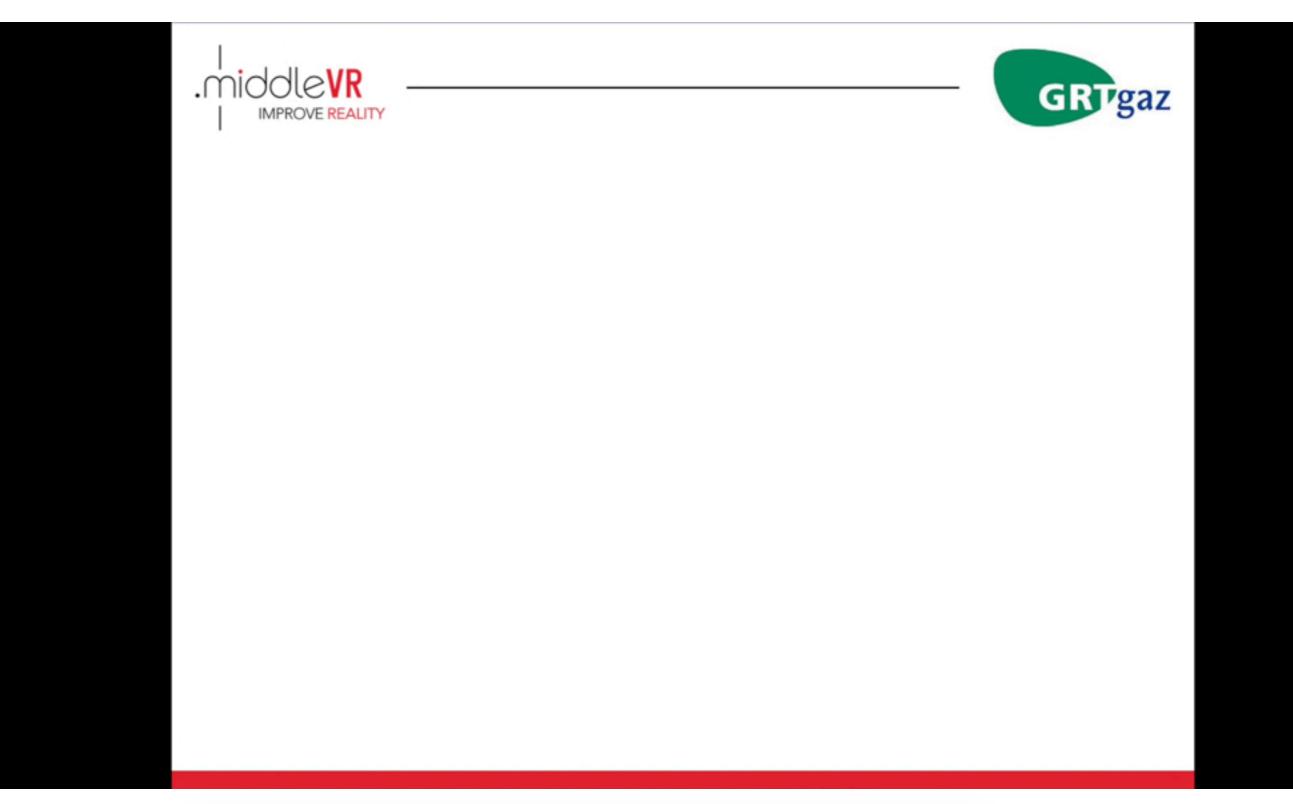
- Easy to use
- Practice actual gestures
 - Repeat until master
 - Record, analyse, replay
 - Safe environment
 - Controlled scenarios





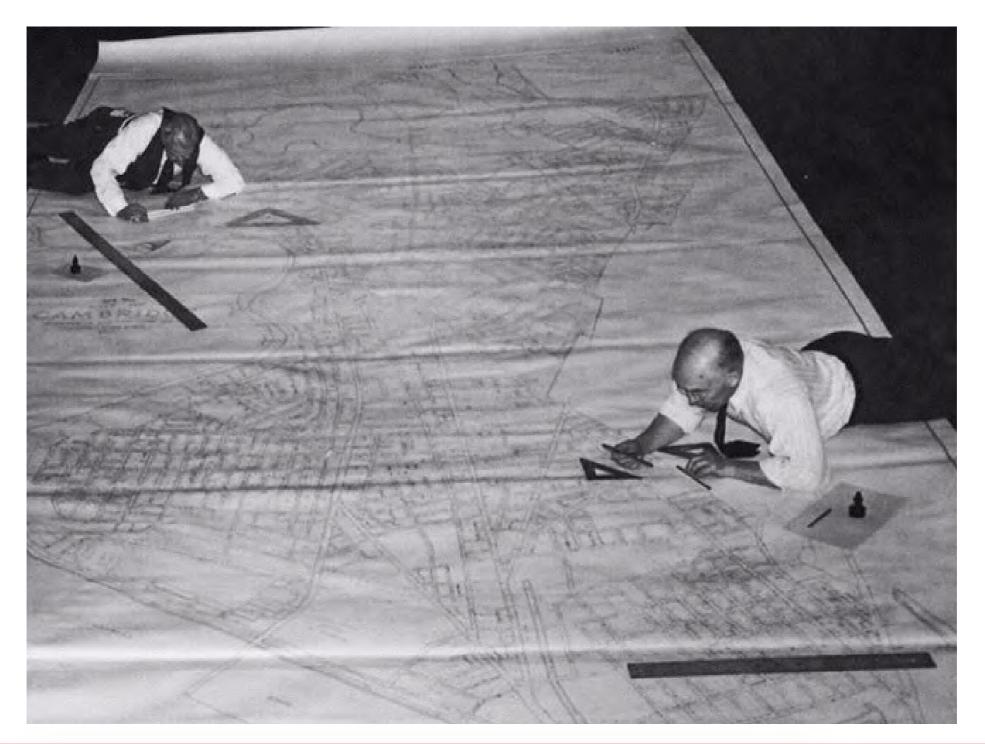


Exemple - GRTgaz





ENGINEERING BEFORE VR



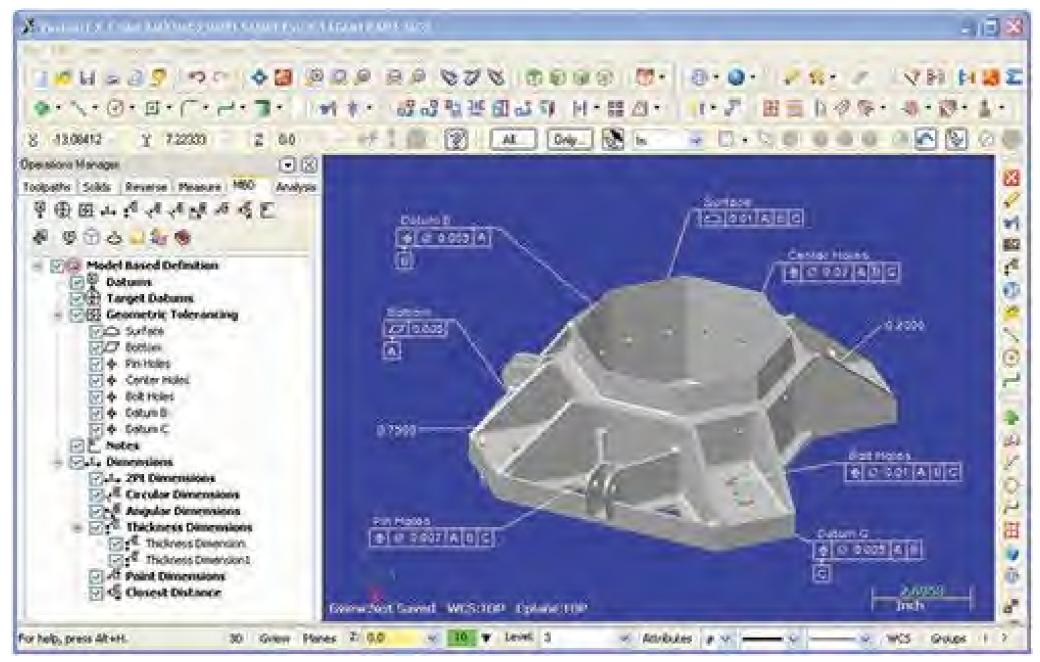


ENGINEERING BEFORE VR





ENGINEERING BEFORE VR





UNC





IMPROVE REALITY ENGINEERING WITH VR





ENGINEERING WITH VR



- Break screen barrier
 - Life-size model
- Natural communication tool

ENGINEERING WITH VR



- Validate design
 - Identify conception errors early
 - Faster iterations
 - Ability to risk new crazy ideas





I M D M O M

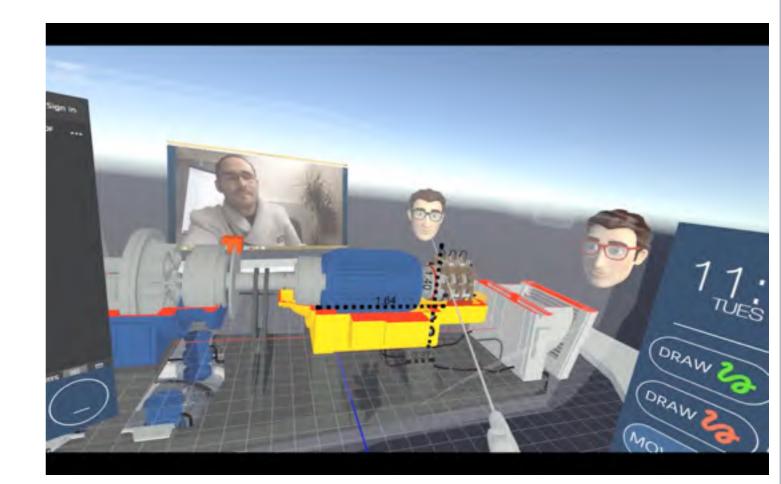
Virtual collaboration





A platform for professional virtual collaboration

- A virtual office
 - For engineers
 - CAD, CFD, ...
 - Ergonomics
 - For architecture
 - For training
- Specifically for HMD
 - And walls / CAVEs
- Natively collaborative
- Easy to setup / use







- Immersive product review
 - Import native CAD data
 - Catia V5 / V6
 - Solid works
 - Siemens NX (JT)
 - STL, Step, Collada, FBX IFC
- Design of products and processes
- Analysis of production tasks
- Operators' training
- Maintenance studies
- Analysis of posture and ergonomic quotation (RULA)



Improov³





ERGONOMIC STUDIES FULL BODY ANALYSIS

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https://www.youtube.com/watch?v=TJB0mPVxIgU



FEATURES

- Load 3D models
- Load native CAD data
- Visualize at real scale
- Interact naturally
- Collaborate online
- Cutting planes
- Annotations
- Take pictures
- 3D measuring tools
- Ergonomic assessment
- Desktop application: VR is not required



SUPPORTED FILE FORMATS

- Catia V5 (.CATPart, .CATProduct, .cgr R10 -> R22)
- Catia V6 (3DXML Binary, R2011x)
- 3DXML (V3, V4 Ascii)
- Solidworks (.sldprt, .sldasm, All-> R19)
- Siemens NX (JT: JtOpen 7.0 -> 9.5)
- STEP (.stp, 203/214)
- IGES (.igs, 3&5)
- VRML
- FBX
- Unity Asset Bundle
- 3DS, OBJ
- STL
- And more to come !

Reference users

Companies with in-house VR systems







- 3.0 Release: June 2016
- 3.1 Fall
 - Ergonomic assessment
- Future
 - "Viewers": Limited but much more affordable
 - Haptics / Collisions
 - Rendering optimisations
 - Export
 - Sketching / Draw
 - MiddleVR Cloud
 - Simplify contacts/connexion management
 - App is in cloud (Desktop & VR)
 - Tell us your needs!

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Thank you ! Questions ?

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