more stories, better told

Alex Micallef, Director Channel & Partnerships, EMEA

Agenda

1. Vizrt Group – NewTek, NDI, Vizrt
2. Save Costs, Evolve, Stay Relevant
3. 5 new Vizrt products

vizrt

VIZRT GROUP

More stories, better told

Strong brands that approach different markets

vizrt

Unlock the power of your story

NewTek™

Every story deserves to be seen, we give storytellers a voice through video

NDI®

An interconnected eco-system delivers better video for everyone

vizrt

Save cost
Evolve
Stay relevant

Market trends

1. Move to automated workflows and pressure on cost savings (Efficiency in all aspects of the production chain)
2. Multiplatform Content Delivery (Relevance on all platforms)
3. Visual Storytelling – making Live the broadcaster's differentiator.
4. Transition to IP, 4K / UHD

vizrt

Move to automated workflows

Efficiency in all aspects of the production chain

1. You need to save costs and resource usage in media workflows.

2. Workflow Orchestration & Studio Automation fully support this goal

3. Vizrt is number 1 for Studio Automation.

4. Our product line now has 3 options to covers all sizes of self-contained productions, as well as all sizes of existing broadcast installations

Viz Verdi

Viz Helix

vizrt

Multiplatform Content Delivery

1. Audiences are changing the way they consume news/media.

2. Advertising spend goes to online faster than ever.

3. Merging of media departments (online/broadcast). Need for transversal solutions: "the fast track".

4. Opus is new way of online production: DW, BFM, Euronews

5. Viz Story for Multiplatform delivery: MBC, Channel 7

Visual Story telling

AR to differentiate & enhance storytelling

1. Everyone is investing in storytelling capabilities
2. AR will reach every live studio

Viz Arc

1. Simple & powerful control tool for AR.
2. Ready to be used in house, outdoor & OBVans.
3. Vizrt tool but can also control Unreal, chroma keyer & robotics.
4. In daily production: Rai, Sky UK, Formula E, Discovery Sweden, CCTV

More live production. Visual Storytelling

If it's not live - it's likely watched on Netflix.

1. Broadcasters' biggest differentiator in LIVE. Everyone is investing in storytelling capabilities.
2. Trends include; Flexible and light Pop up channels; breaking news studios; low cost Sports
3. Vizrt the leader in AR/Virtual set solutions & Studio Automation.
4. More output requires more production. Budgets are constantly squeezed.
5. Free up resources to use them better.

Viz Verdi

vizrt

Transition to IP, 4k, HDR

1. Traditional hardware solutions are expensive, and short term – not suitable for new build studios, or transitions to new formats.

2. IP future proofs production workflows. Less dedicated hardware.

3. Vizrt solutions are ready to work with uncompressed sources (eg SMPTE) or with NDI
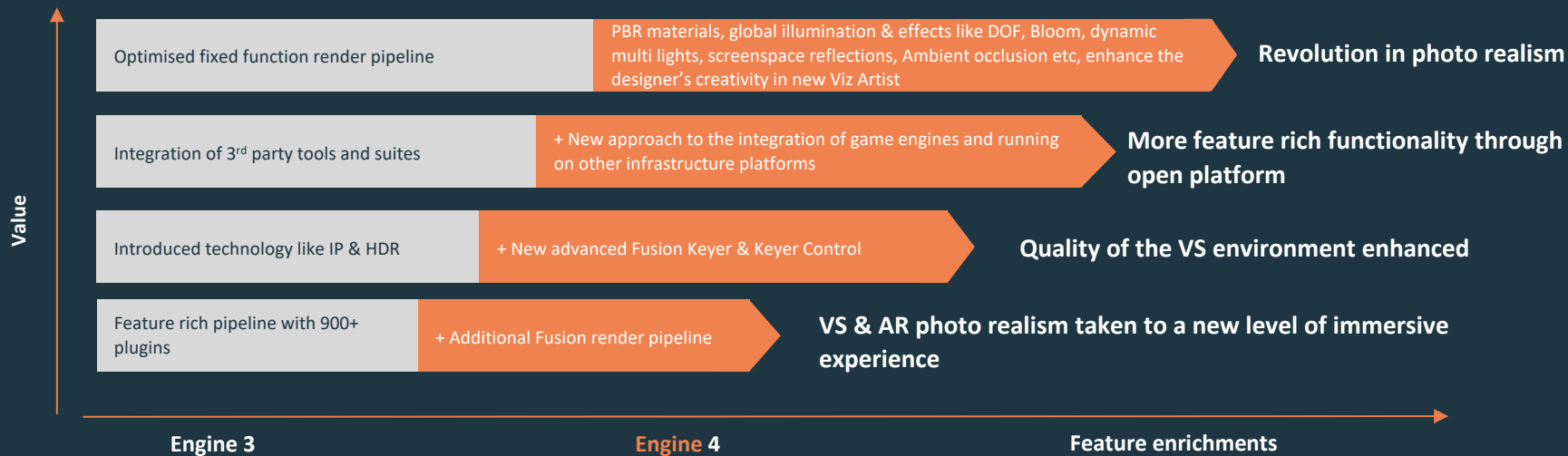
4. Vizrt introduces Vectar

Product Announcements

A significant step change

From Viz Engine 3 to 4 – an evolution *revolution* that delivers the power to transform audience experiences

Value

Engine 3	Engine 4	
Optimised fixed function render pipeline	PBR materials, global illumination & effects like DOF, Bloom, dynamic multi lights, screenspace reflections, Ambient occlusion etc, enhance the designer's creativity in new Viz Artist	**Revolution in photo realism**
Integration of 3rd party tools and suites	+ New approach to the integration of game engines and running on other infrastructure platforms	**More feature rich functionality through open platform**
Introduced technology like IP & HDR	+ New advanced Fusion Keyer & Keyer Control	**Quality of the VS environment enhanced**
Feature rich pipeline with 900+ plugins	+ Additional Fusion render pipeline	**VS & AR photo realism taken to a new level of immersive experience**

Engine 3   **Engine 4**   **Feature enrichments**

vizrt

Made for IP

Viz Engine make IP production
the standard for all future workflows

- **SMPTE 2110:** The standard for uncompressed video, audio and metadata

- **NDI:** Compressed video standard, easy device registration and discovery for flexible live productions

- **WebRTC:** Open source project to enable Real-time communication over the web

\vizrt\

Viz Engine Platform Overview

Some of the key features of Viz Engine

✓ High performance data driven **real-time compositor**

✓ Real-time **graphics player** and **video playout** server in one box

✓ Multiple live inputs, clip players, graphic channels, IP inputs

✓ **Live ingest** and **clip record**

✓ Provides "**switcher-less**" live production

✓ Agnostic real-time VS and AR **camera tracking** processor

✓ Live inputs span across **SDI**, SMPTE **2110** and **NDI** to any **stream** format

✓ Format agnostic **IP IN** and **IP OUT**

✓ Native resolution **video wall** and electronic board image processor solution

✓ Full **API**, SDK and VDCP controllable

✓ Non burnt-in **Meta-graphics** workflow

✓ Built in **content management**

\vizrt\

Fusion Render Pipeline

- Physical Based Rendering (PBR) approach

- Advance Lights and Shadows

- Screen space reflection

- Global Illumination v2.0

- Post Effects
  - Cinematic DOF
  - Colour Correction & Grading
  - Tone mapping
  - Bloom

- New Viz Artist interface

vizrt

Reality Fusion
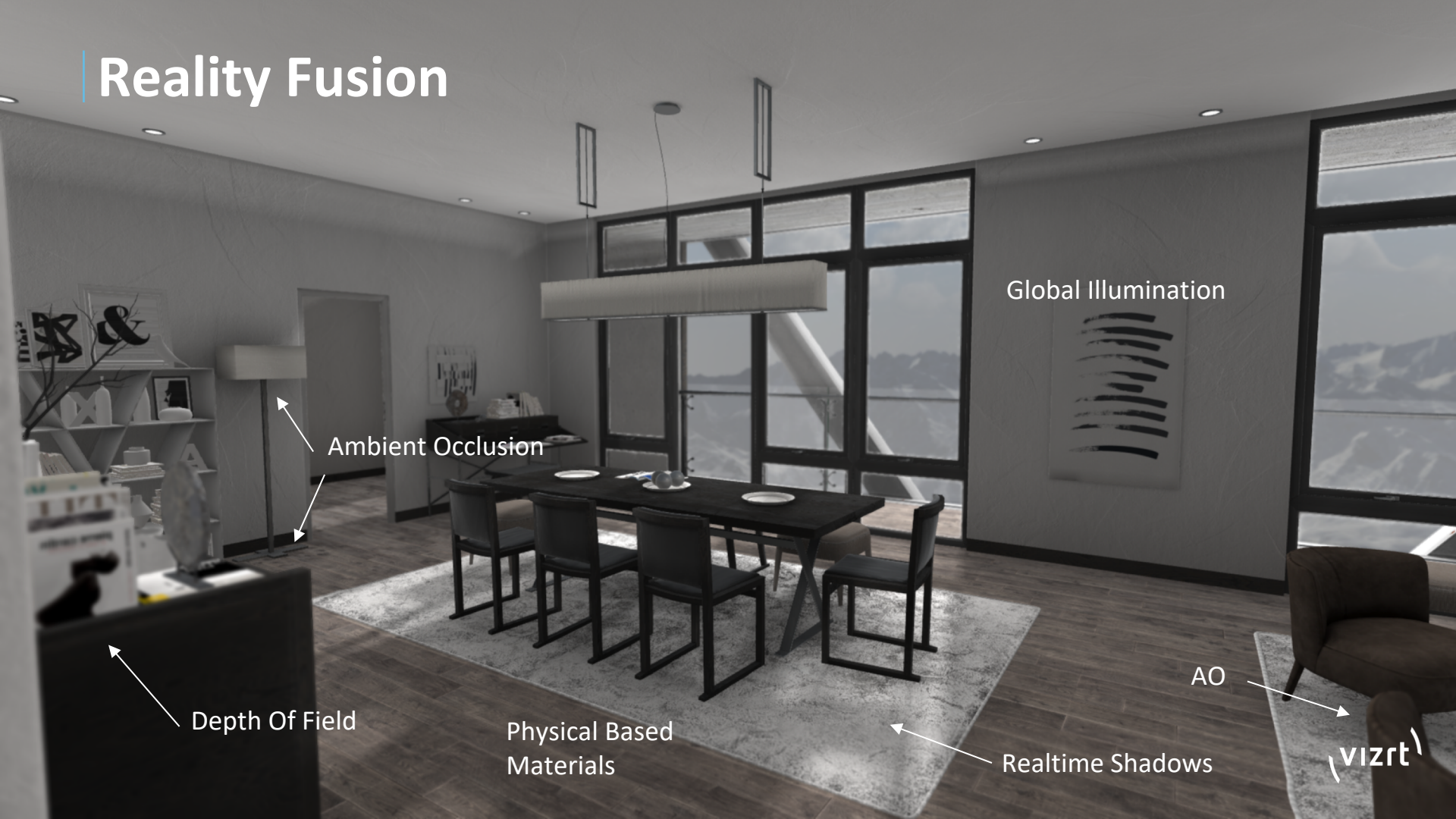
Ambient Occlusion

Global Illumination

Depth Of Field

AO

Physical Based Materials

Realtime Shadows

VIZrt

Fusion Keyer - The new multimatte keyer

Built from the ground up, the new Fusion Keyer allows our customers to perfectly immerse their presenter into a virtual environment, giving a clean, unobtrusive key and ultra realistic results.

- ✓ 16 bit per channel linear signal processing with HDR support

- ✓ New denoiser to keep fine details while getting rid of the noise

- ✓ Processed foreground, spill, lightwrap, highlight and edge mattes calculated independently in the right color space

- ✓ Compensation for exaggerated edges between green and other colors while keeping the image sharp

- ✓ Preservation of fine details like hair, blond and black, and transparent objects

- ✓ Full color adjustment using lift, gamma and gain

\vizrt\

Viz Engine 4

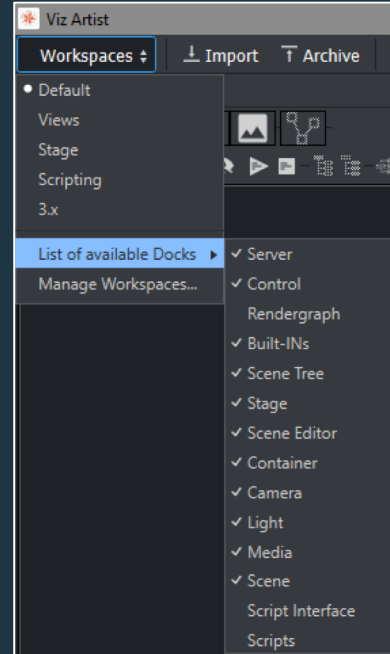Free software upgrade for Customers with Vizrt Support/Maintenance contracts
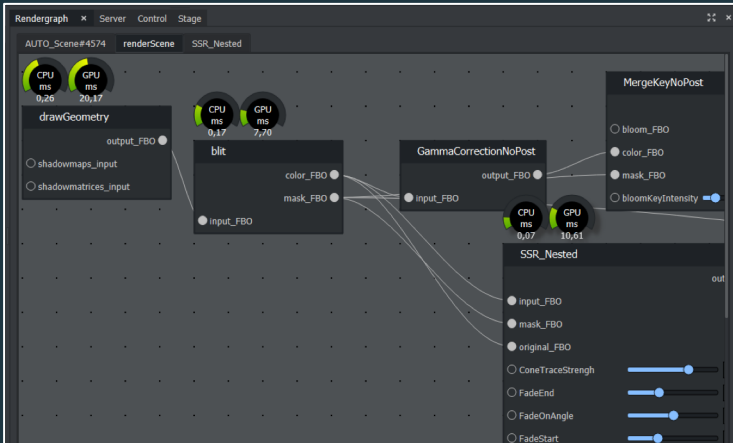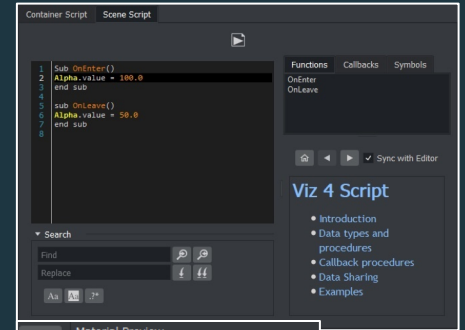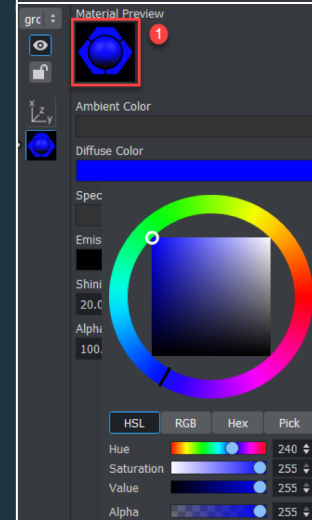
Available Now!

vizrt

Viz Artist 4

- New Viz Artist interface

- Rendergraph editor
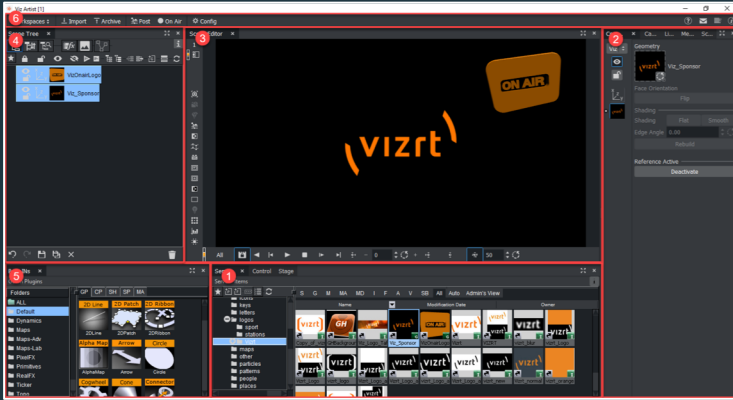
- Docking and Workspaces

- Redesigned Editors

Viz Arc

Viz Vectar is a future-ready,

multi-format live production switcher that leverages the latest advances in IT and IP technology to give our customers additional features and a strong competitive edge.

Viz Vectar

vizrt

Vizrt SDI IO Module

Viz Verdi

Viz Verdi

Summary

Summary

Vizrt investing heavily in innovation that allow you to

- Save Cost
- Evolve
- Stay Relevant

vizrt

more stories, better told