

во всех сферах и отраслях

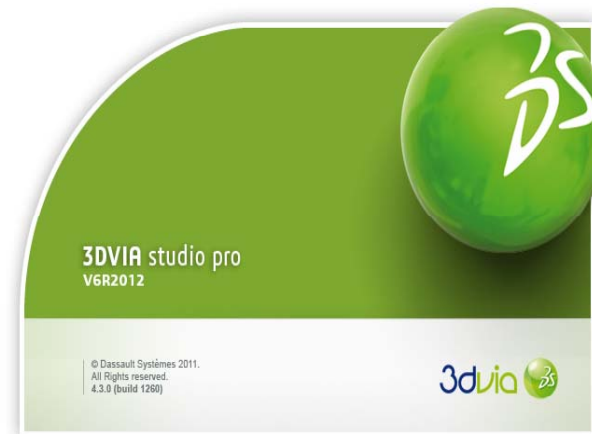


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Holiday Inn Sokolniki 13 октября

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3DVIA Studio Pro

V6R2012 Introduction



3DVIA Studio Pro Agenda

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Introduction

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What is 3DVIA Studio Pro?

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3DVIA Studio Pro Key Features

3DVIA Studio Pro Agenda

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What is 3DVIA Studio Pro?

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3DVIA Studio Pro Key Features

Typical Needs

Developing 3D real-time interactive apps



ISV

- Increase speed of production process
- Reduce risks of budget overruns and delays
- Publish applications available across various platforms
- Open architecture to allow powerful third party integration
- Sustainable technology in the very long term

Services Provider / Agency

- Differentiate offering from competition
- Maximize component reuse
- Increase speed of production process
- Reduce risks of budget overruns and delays

End-User Company

- Reduce outsourcing costs on multiple projects
- Easily capitalize and reuse development work
- Eliminate IP risk by keeping production in-house

Educational Institution

- Integrate custom algorithms
- Source 3D components made by others
- Run prototypes on large displays at no or (very) low cost

3DVIA Studio Pro Agenda

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3DVIA Studio Pro Key Features

What is 3DVIA Studio Pro?



Collaborative
Product Reviews



Sales and
Marketing
Configurators



Virtual Training and
Simulation



Game-Based
Learning



Experiential
Marketing
Campaigns



Virtual
Walkthroughs

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"Live Your Mission"

Development Platform

For Engineers and R&D Teams

To Rapidly Develop & Deploy

Highly Interactive 3D Applications

Workflow

Final User

Play Experience!

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Build & Publish

Application Designer / SME

Making it feel 'real'

- Scenario Creation
- Interaction Scripting

3dvia studio pro

Application Designer

Imagine User Experience



ORCHESTRATE

Administrator 3D Data

Making it 'right'

- Connection, Conversions
- Updates, Security

Programmer



Making it 'real'-time

- Behaviors Implementation

3D Designer
3D Artist

Making it look 'real'

- Lighting, textures, materials setup



3DVIA Studio Pro

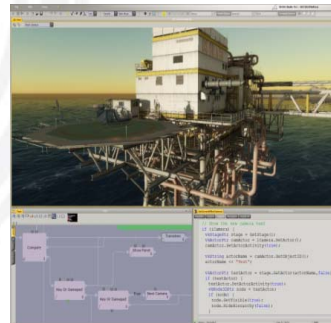
Designed for Building Immersive 3D Virtual Environments

3DVIA Studio Pro

- Authoring platform
- For application designers, programmers and 3D artists to collaboratively design,
- To develop and deploy 3D rich lifelike applications

3DVIA Studio Player Pro

- Application runtime
- Enables to play any Studio Pro-made experiences
- In a consistent fashion
- Across online, desktop or immersive platforms



3DVIA Studio Pro Product Line

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Publishing Deployment

- Generate content which does not requires Player Pro license at runtime
- Make EXE philosophy



3DVIA Extra HD Option

- To display on large screens and immersive systems
- When resolution > Full HD (1920x1200px)
- XHD watermark otherwise



3DVIA Studio Pro Services

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3DVIA.com communities

- 3D Modeling
 - Models, Textures, Shaders, Smart objects
- 3D Components for Studio
 - Building Blocks, Behaviors, Templates
- 3D Experiences
 - Complete project
- Developer forums

3DVIA Professional Tech Support

- Defect management
- Bug fix escalation procedure
- Self support web tools

3DVIA Agency

- Training
- Application design
- Project development

3DVIA Studio Pro Agenda

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1

Introduction

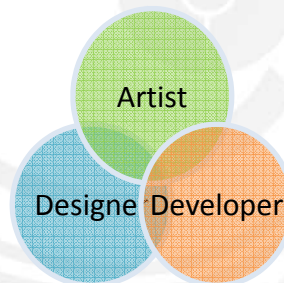
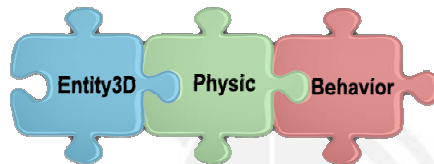
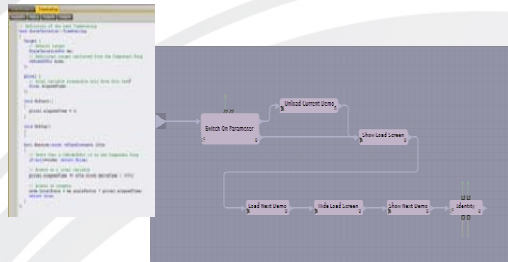
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What is 3DVIA Studio Pro?

3

3DVIA Studio Pro Key Features

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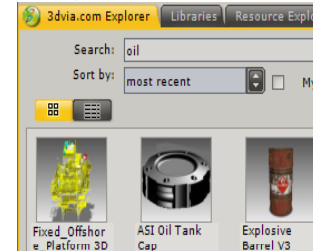
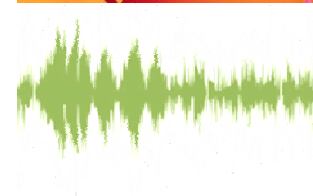


- **Versatile Programming**
 - Use of C based language or “visual scripting” building blocks
- **Next Gen Render Engine**
 - Shaders materials, Level of Detail, Depth of field, etc
- **Strong Reusability**
 - Template based behaviors, user and project libraries
- **Collaborative Workflow**
 - Framework where artists, scripters and designers contribute to the project using source control

3DVIA Studio Pro Key Features

Manage asset pipeline

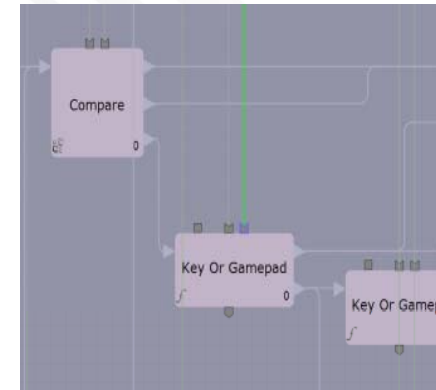
- Import 3D and multimedia assets
 - 3DXML, Collada, Textures, Sound, Video...
- Store asset configuration in separate XML files
- Use 3DVIA.com integrated search
 - Reuse members' templates and 3D assets
- Optimize assets at build time



3DVIA Studio Pro Key Features

Program as you like

- 3 language levels
 - From low level C++ coding to high-level visual programming
- Template / Instance model
 - Create generic actor template to reuse and customize
- Behavior components
 - Implement high-level behaviors to drag-and-drop on 3D model to give life
- Open architecture through C++ SDK
 - To develop extension modules or integrate 3rd party components



```
NextOperator
// Definition of the function NextOperator
void
CharactersAutoCamera::NextOperator(int32 iDelt
{
    uint32 opCount = operators.Size();

    vkGamepadPtr gamepad = vkIODeviceManager::Gar

    if (!mainScenario)
    {
        PrintE(this.GetActor().ComponentID + vkStr:
        return;
    }

    PickableBePtr pickable = 0;
```

3DVIA Studio Pro Key Features

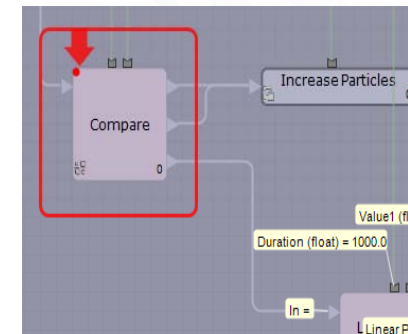
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Test, debug and optimize

- Live editing
 - Keep modifying assets or behaviors while playing the experience
- Debug tools
 - In the render engine or the behavior engine
 - Breakpoint, step-by-step, watch variables... (both in IDE and in Player)
- Profiling tools
 - Triangle count, fps, Memory usage, Time per task... (both in IDE and in player)
- SDK
 - Optimize performance of critical code sections



3DVIA Studio Pro Key Features

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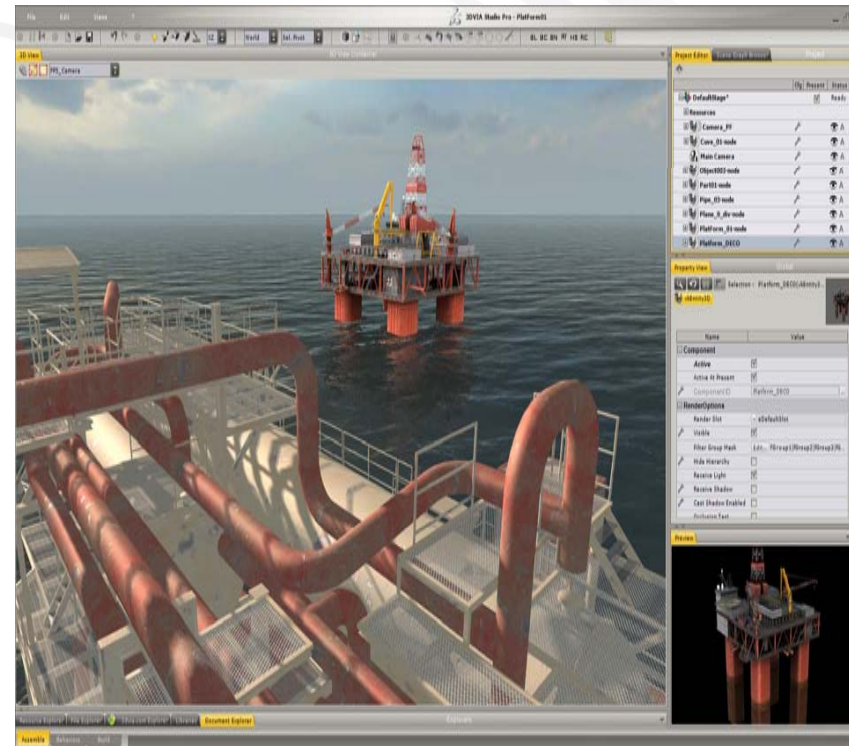
Manage multi-platform build configurations

- Dedicated « Build » workset
 - Create build process configuration for each targeted deployment platform: Web, PC...
- Asset Processor
 - Simplify meshes, resize textures, convert file formats etc. at build time
- Cleaning tool to remove unused assets
- Option to generate license-free content



3DVIA Studio Pro Key Features

- Behavior
- Rendering
- Animation
- Physics
- AI Path Finding
- Particle System
- Sound
- Video
- Terrain
- Immersive Virtuality (iV)

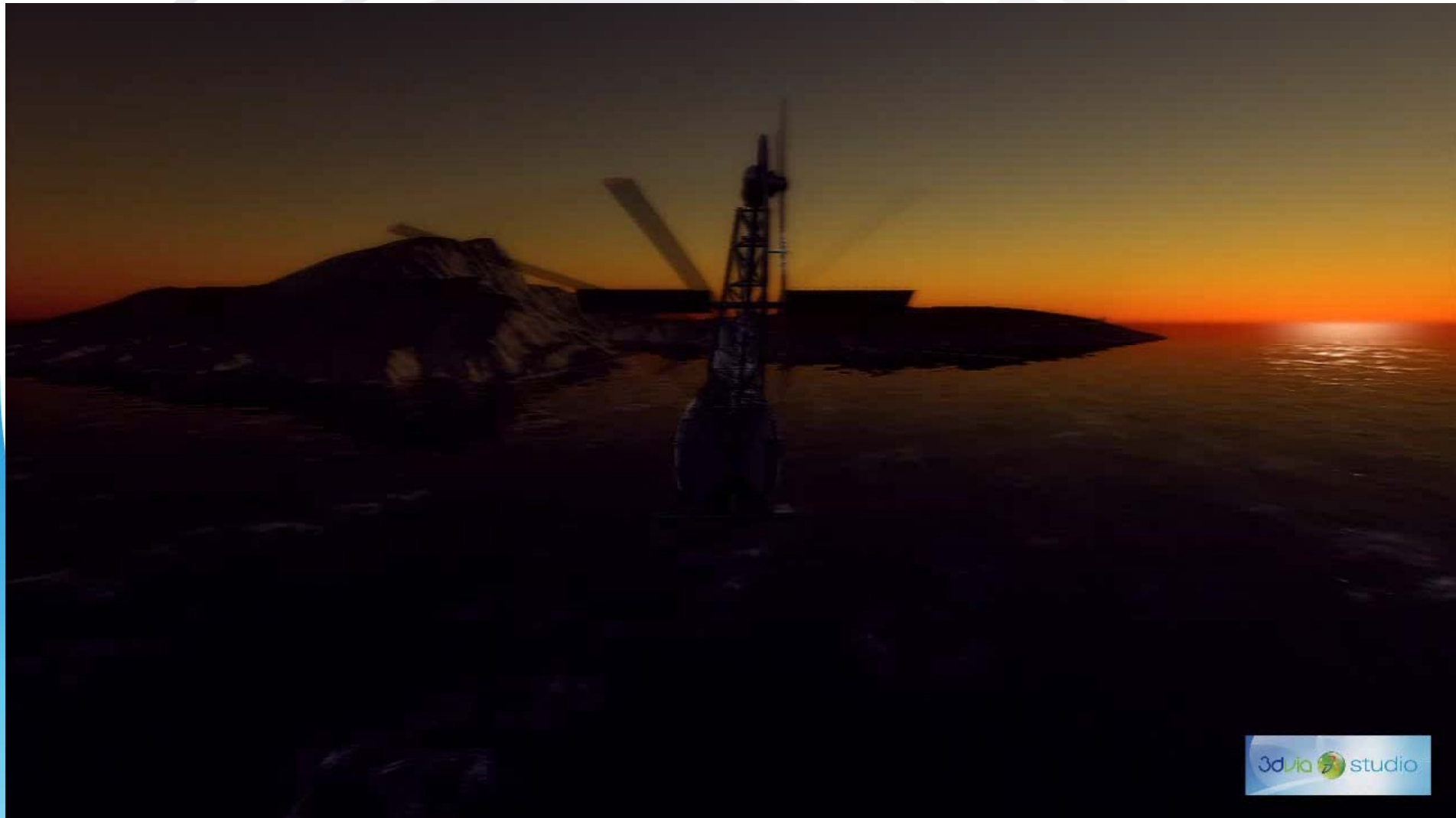


Lifelike Effects

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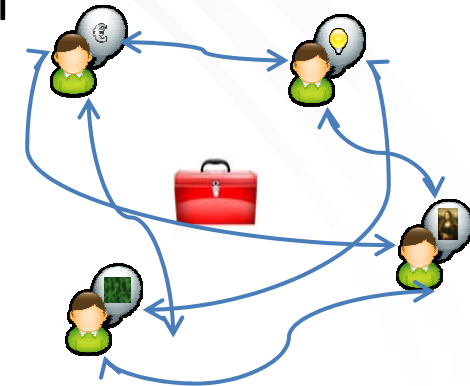
Strong Reusability

- Template-based System
 - Quick instantiation of objects
 - Quick propagation of changes across a composition
- Components can be aggregated
 - Allowing the multiplication of possibilities
- Use of User and Project Libraries
 - Sharing of elements (behaviors, templates, etc)

3DVIA Studio Pro Key Features

Collaborative Workflow

- Work can be partitioned
 - Avoids conflicts using logical subdivisions of the project called stages
- Projects are organized
 - Via a hierarchy of XML-based files, linking together files of industry-standard format
- Link to Source Control
 - Fully integrated, securing the project's assets
- Original assets are preserved
 - Thanks to the configuration of original media files



3DVIA Studio Pro Key Benefits

- Efficiently **develop** new engaging and realistic 3D applications
- Consistently **publish** across browsers, desktops, 3D TVs and immersive systems
- Give life to 3D CAD objects thanks to **gaming**-like technology
- Collaborate more effectively across **teams**
- Focus on **creativity**

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спасибо за внимание

