



VR training systems for emergency response

info@vr-crisis.com

# **OUR EXPERTISE**



# 20 years experience providing simulation software for incident command training



# **CORE BUSINESSES**

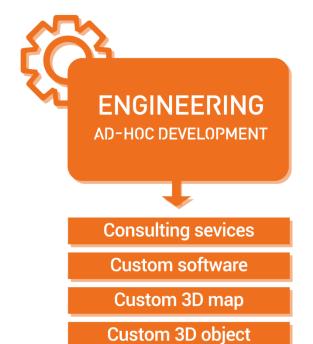




Software modules

3D Map modules

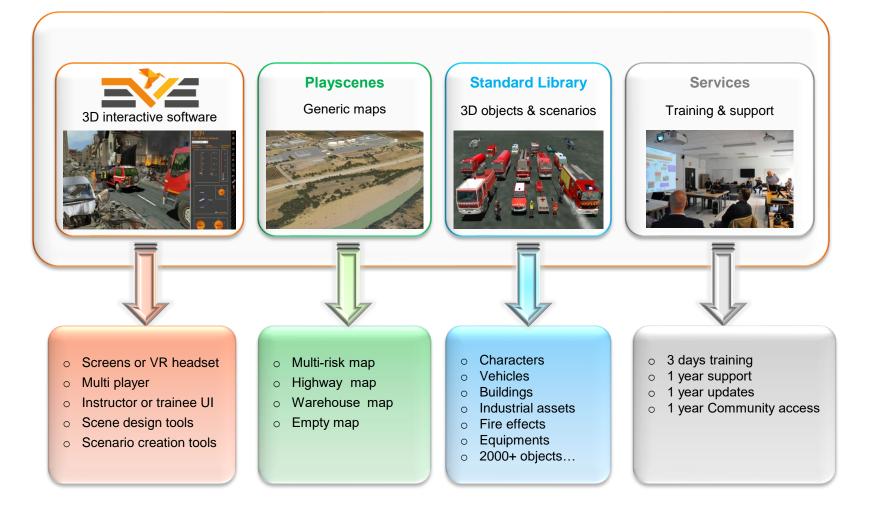
3D Object modules







#### **Base Solution**





EVE™ base solution is a ready-to-use collaborative simulation platform designed to train emergency teams in virtual operational environments

#### **Import**

Import your own data (GIS, CAD, medias and 3D content)



#### **Train**

Control exercises, Debriefings, monitor trainees





#### Compose

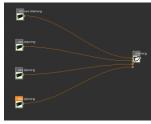
Create your maps, Compose your scenes, scenarios, lessons learned



#### **Animate**

Animate by scripting, logics, physical simulation, A.I., interaction

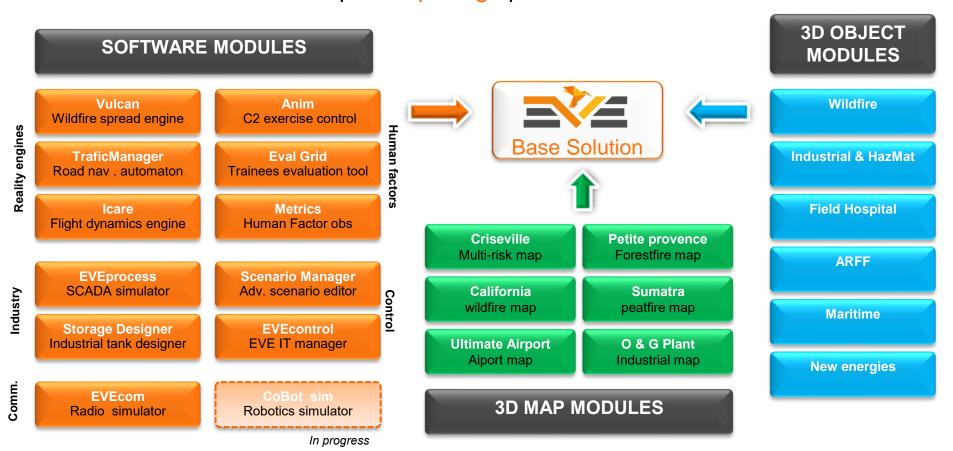






#### **Modules for customized solutions**

We will build training solutions to fit your needs, organization and educational scope composing optional modules





# Example of a customized Oil & Gas training solution



GESIP is the training center. for Oil & Gas Majors. Uses EVE© since 2010. https://gesip.com/nos-adherents-2/



SOFTWARE MODULES

Vulcan
Wildfire spread engine

TraficManager
Road nav . automaton

Icare
Flight dynamics engine

EVEprocess
SCADA simulator

Anim
C2 exercise control

Eval Grid
Trainees evaluation tool

Metrics
Human Factor obs

Scenario Manager
Adv. scenario editor

**EVEcom** Radio simulator

Storage Designer Industrial tank designer

Reality engines

Industry



**Human factors** 

Control







peatfire map

O & G Plant

Industrial map

3D MAP MODULES 3D OBJECT MODULES

Wildfire

Industrial & HazMat

Field Hospital

**ARFF** 

Maritime

**New energies** 



# **Example of a Bushfire training solution**



https://www.valabre.com

Valabre is the training center that qualifies all fire officers for wildfire commandment in France.

From fire engine leaders to ERO managers, all training and qualification is done on our simulators.



SOFTWARE MODULES

Base Solution

Criseville
Multi-risk map

Petite provence
Forestfire map

Wildfire spread engine

TraficManager
Road nav . automaton

Vulcan

Icare
Flight dynamics engine

Metrics Human Factor obs

Anim

**Eval Grid** 

**Human factors** 

Control

EVEprocess SCADA simulator

Storage Designer Industrial tank designer

Industry

EVEcom Radio simulator Scenario Manager Adv. scenario editor

**EVEcontrol**EVE IT manager

Ultimate Airport
Aiport map

California

wildfire map

Sumatra peatfire map

> O & G Plant Industrial map

3D MAP MODULES 3D OBJECT MODULES

Wildfire

Industrial & HazMat

Field Hospital

ARFF

Maritime

New energies

Air tanker



Helicopter ....



Incident command team



#### Bushfire solution: software modules

#### Vulcan Wildfire spread engine

- Robust physical based simulation incl. local winds, slope, vegetation
- o Real-time metric fire propagation and suppression
- Very extended areas (>50 000 ha)
- Real-time air & ground actions: water extinguishing, counter firing, logging, retardant drop, etc.

## TraficManager Road nav . automaton

- GIS-based detail road network and water resources
- Easy-to-use road navigation of single or group of vehicles
- Automatic routing of convoys
- Manual 4x4 off-road driving
- Trainees' control of fire suppression actions
- Automatic water consumption management

#### Icare Flight dynamics engine

- Flight dynamics for drones, helicopters and planes
- Realistic instruments & gauges
- Water or retardant bombing, scooping or refilling
- o Solo or formation flying mode









**Bushfire solution: maps modules** 



Geo-specific maps built from Digital Elevation Model, GIS data and aerial imagery to obtain 3D high end realistic map

- o Roads, highway, railway, tracks
- Buildings, infrastructures, power lines, hydrants...
- High resolution vegetation and fuel maps
- Typical Housing Styles
- Points of interest





# Bushfire solution: 3D objects modules

#### Wildfire library

- o Crews ressources: FF & Hotshots avatars, with associated fire suppression equipments
- o **Ground resources**: driveable Vehicles, Bulldozers, Fire Engines, robots
- o Airborne resources: Planes, Helicopters, Drones, airfield support Infrastructures
- o Water resources : cisterns, pools, hydrants, etc.

# Your ressources on demand





#### Bushfire solution: EVE ExCon features



#### Easy to use supervise:

- o Powerful UI to manage hundreds of vehicles
- Automated Planes / helicopters drops missions
- Automated vehicles/convoys missions

#### **Powerfull exercise Control:**

- Multi ExCon facilitators capability
- Switch 3D view from map to aerial
- o Easy control of automated fire spread engine



# **CRISE Engineering**



# Software development

- New features
- Specific EVE© modules
- Integration with third party software

#### **Content creation**

- Customized 3D maps
- Smart 3D objects
- Advanced operationnal scenario

# Consulting

- Training center design
- Project support
- Pedagogic advice









# **CRISE Training & Support**



## On demand training

- On site or remote on-the-shelf VR exercices under your pedagogic supervision
- Support for international exercises and research activities

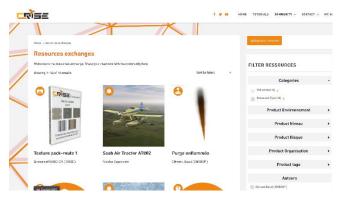
# **Client support**

- Software update
- Hotline
- EVE Community™: EVE user community exchange website

#### **Train the trainers**

- Exercise Control facilitator
- Scenario designer
- Environment designer







# Why working with us?



When working with CRISE, you experience a collaborative approach that puts you at the center of the product development process. Here's how we ensure your success.

#### 01 Understanding Your Needs



We take the time to deeply understand your specific requirements and challenges, working closely with you to identify the optimal solution.

#### 02 Co-Design and Development



Together, we design and build a training system tailored to your unique needs. Our expert team collaborates with you to create a solution that aligns perfectly with your goals.

#### **03** Training and Support

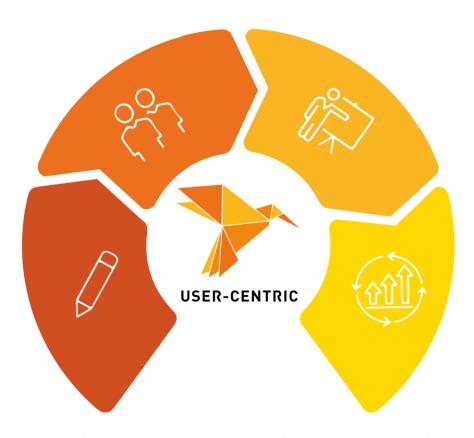


Empower your team with comprehensive training to unlock the full potential of our solution and ensure a smooth transition.

#### 04 Continuous Adaptation



We understand that your needs may evolve over time. CRISE is committed to continuously enhancing the product to address any changes and keep it aligned with your evolving requirements.



Acquire a robust product built in customer-centric collaboration that prioritizes your success at every step.

# Use case examples



# Classroom training use case

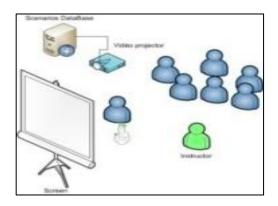
- Hydrogen European training program
- Wildfire international doctrinal exchange

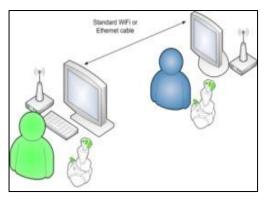
## Solo training use case

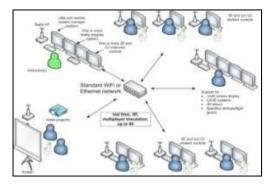
- On-scene decision-making
- Air-ground coordination
- Ground operations

# Team training use case

- Crew commander
- Incident command IC/ICP
- Multi agency team training
- Emerg. Resp. Org. Lessons learned







# Classroom use cases examples



# Hydrogen European training program





International education program

- Introduce to H<sub>2</sub> risks
- Production, transportation, automotive
- Fuel cells
- ROE, SOPs definition and practice





Anim
C2 exercise control

New energies

# Wildfire international doctrinal exchanges

Working and exchanging together











**EVE**Base Solution

Vulcan
Wildfire spread engine

California wildfire map

Petite provence Forestfire map

Wildfire Library

# Solo training use cases examples



# On-scene decision-making

#### For any kind of risk

- Situational awareness
- Information gathering
- Assessment and reporting
- Elaborate response



**EVE**Base Solution

# **Air-ground coordination**

#### For major events

- Plane guidance
- Aerial supervision
- Air Tactical Group Supervisor
- Can simply evolve to air/air coordination training



EVE
Base Solution

Icare
Flight dynamics engine

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Petite provence
Forestfire map

Wildfire Library

# Solo training use cases examples



## **Airfield ground operations**

#### For bushfire & others

- Air tanker refill
- Ground equipment service
- Incident management
- Situation assessment





**ARFF Library** 

# **Procedure training**

- SOP rehearsal
- ROE practice
- Risk awareness





# Team training use case



#### **Crew commander**

- Radio communication
- Situational awereness
- SOPs, ROE Practices
- Team management
- Etc.





#### **Incident command**

- Stress management
- Effective leadership
- Risk assesment
- Mitigation strategies
- Operations planning
- Etc.



Wildfire Library



# Team training use case



# **Multi agency**

- Improved Communication
- Enhanced Collaboration
- Increased Efficiency
- Enhanced Safety
- Etc.





#### **ERO Lessons Learned**

- Improved Safety
- Enhanced Communication
- Greater Effectiveness
- Faster Response
- Etc.



**EVE**Base Solution

# Users worldwide

























































































# Keep in touch





info@vr-crisis.com



@vrcrisis | @vrcrisis\_eng



www.vr-crisis.com