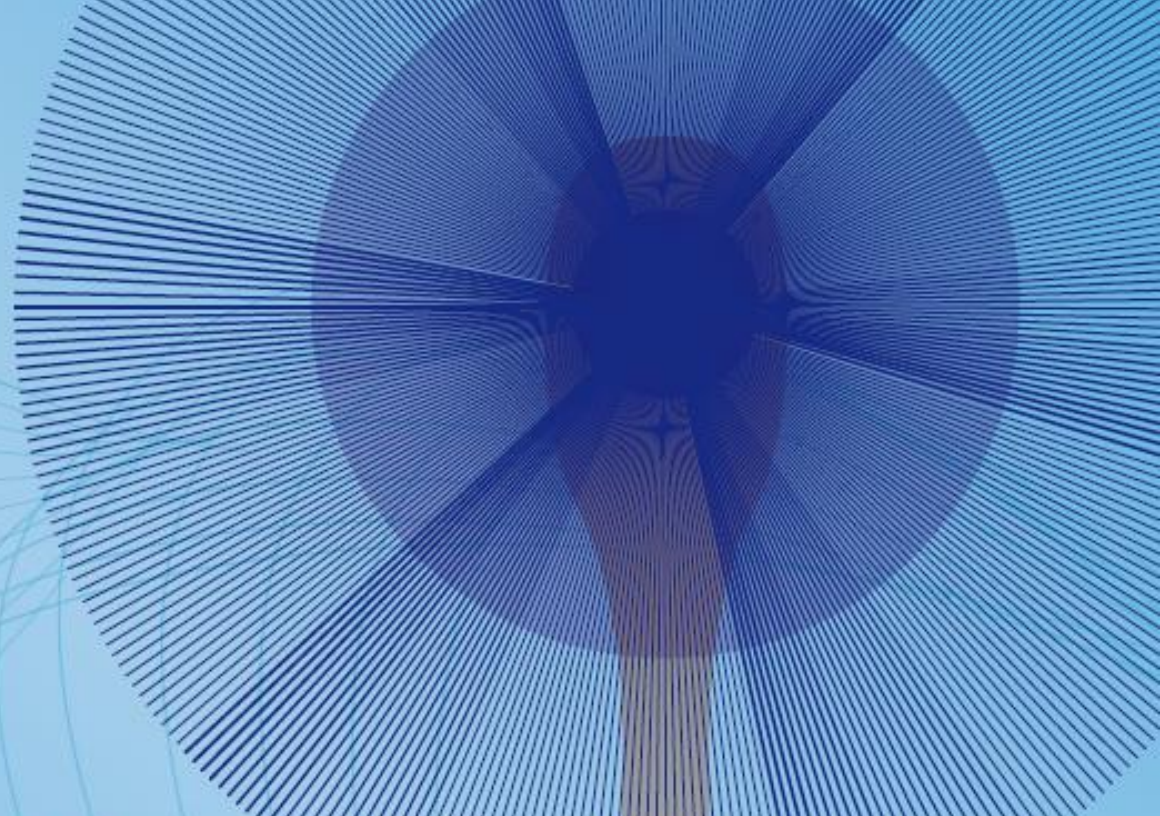


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## THE FUTURE OF ROTARY WING

CENTER FOR HIGH DEFENCE STUDIES  
ROME | NOVEMBER 22 | 2012

# GEMAC Project

Gestione emergenze di missione aerea in aree critiche e meteo avverse



ASSOCIAZIONE  
ARMA  
AERONAUTICA  
Centro Studi Militari Aeronautici  
Giulio Douhet

Ing. Alessandro Paglialunga

# GEMAC Enterprise Network



## Laboratorio Tevere:

**Gyrostabilized platforms.** Special equipments for terrestrial and Helicopter platforms.



## Superelectric – Infobyte:

**Multispectral and Hyperspectral** airborne sensors and systems. Geopointing systems. Visual Simulation.



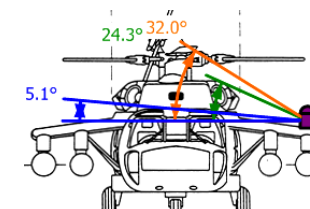
## Biofly:

**Avionic instruments,** ATM systems with ADS-B e FLARM technology, Wireless network systems for small landfields



## Space Sys:

Development of **SAT LINKS** and custom telecom systems



# The GEMAC Goal

To develop an integrated platform devoted to the optimization of working activities based on aerial platforms (**e.g. Helicopters**), in critical situations by integrating innovative Avionic, Multispectral Sensors and Telecom subsystems.



# Main Subsystems

## 1. Multispectral Geopointing System

Real time multispectral geopointing based on real time virtual reality engines.

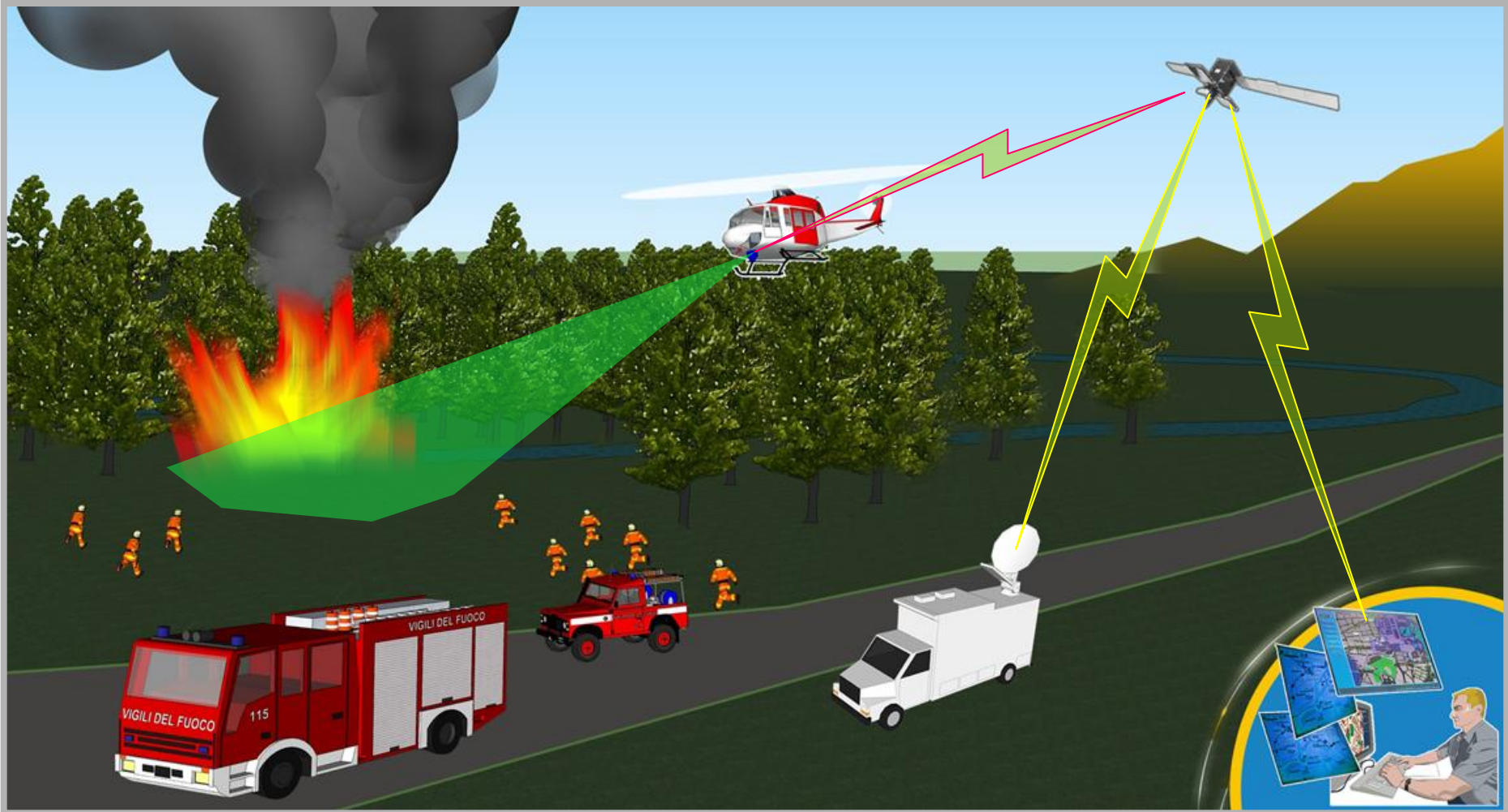
## 2. Direct Helicopter-SAT Link

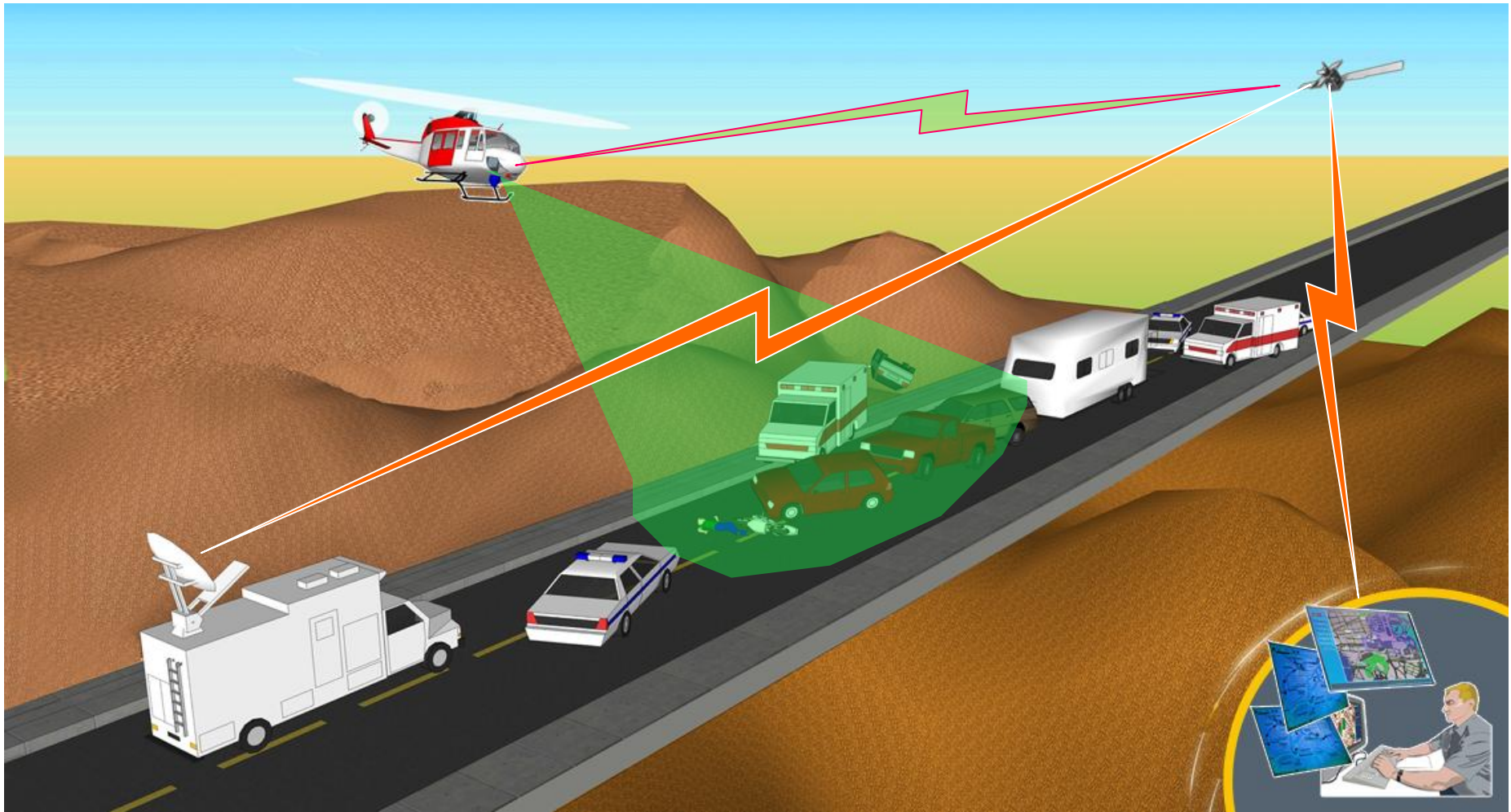
Bi-directional SAT Link for Video/Audio/Data

## 3. On board integrated simulation

On Board parallel processing for feature extraction and data complexity reduction. Integration with CFD engines for mission optimization.











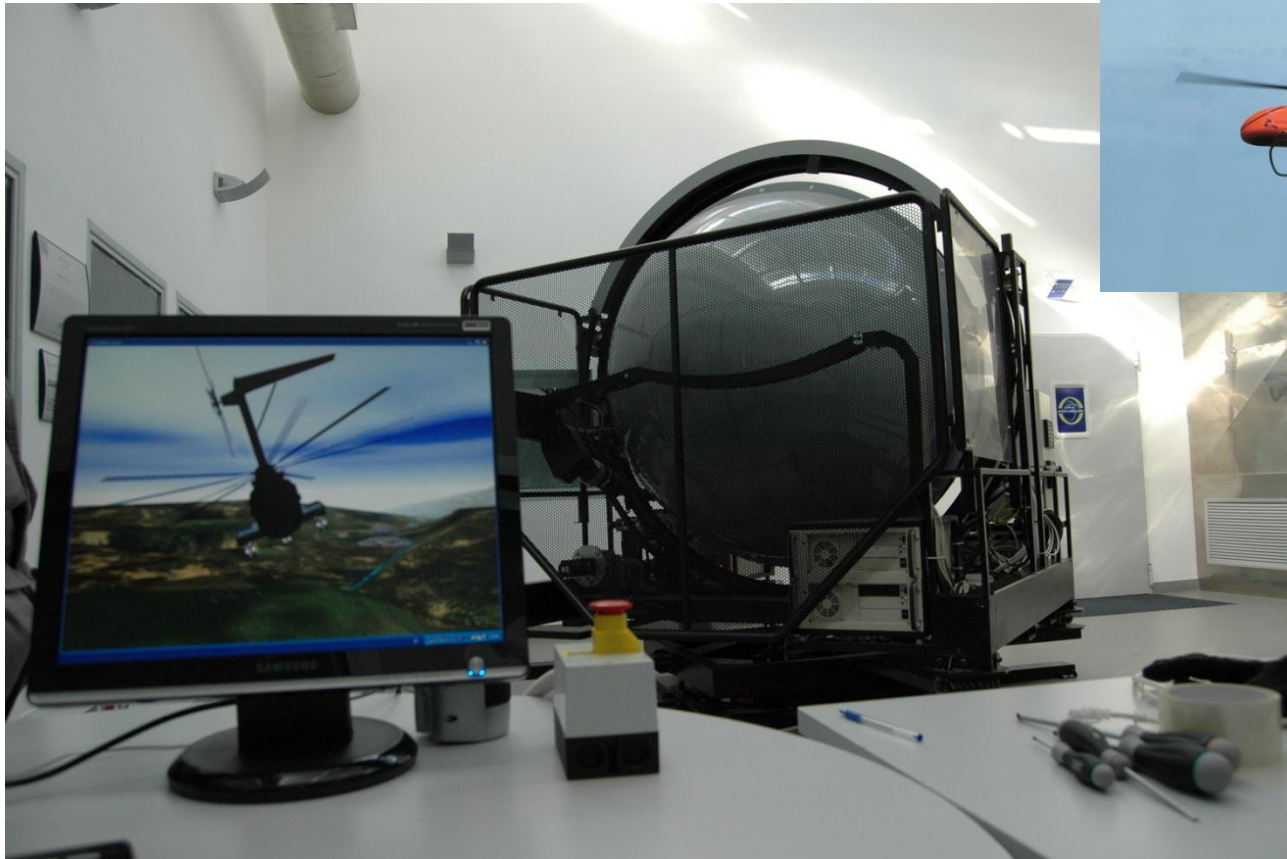


## PLANNING

<b>First prototype test:</b>	<b>January 2013</b>
<b>Integrated Tests:</b>	<b>June 2013</b>
<b>Project completion:</b>	<b>October 2013</b>

## EVOLUTION

**Visual Simulation Telepresence for UAV and Situational Awareness by using direct SAT Link and Dynamic Platform:**





VIDEO  
GEMAC PROJECT



<http://www.gemacnetwork.com>

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