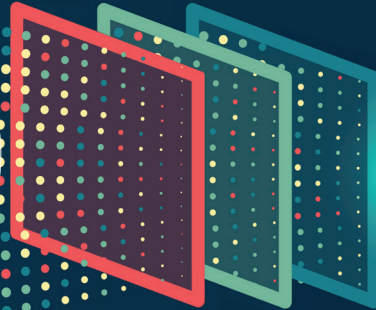


# CREXDATA

Critical Action Planning over Extreme-Scale Data

Real-time  
critical  
management  
of extreme  
scale and  
complex data



Pushing the frontiers of analytics, prediction, simulation and visualization to provide extremely precise, timely and useful results to support human and automated decision-making in critical situations

## OBJECTIVES



Develop an extreme-scale data ingestion and fusion toolbox and realistic simulation models and tools



Create real-time predictive knowledge and forecasts including federated learning, complex event forecasting under uncertainty and techniques for Prediction-as-a-Service



Reduce perceived complexity via graphical workflow design and visual analytics coupled with eXplainable AI approaches and augmented reality under uncertainty

## CASE STUDIES

### Weather emergencies use case

Ingest and fuse extreme data to improve situation awareness that informs decisions in weather emergency scenarios

### Health crisis use case

Integration of epidemiological and multi-scale simulation models with machine learning to support decision-making in health crises

### Maritime use case

Real-time route forecasting to ensure safer navigational routes

## PARTNERS



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