

D1: THREE AI

Train Human Response, Evaluate, Enhance with AI

Eureka Clusters AI Call 2021



CRISALYDE



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1 The keys of cyber resilience



2 The keys of managing a cyber crisis

- ❑ There is a high probability that any organization will, **eventually**, face a cyber crisis, no matter how hard you try to avoid it
- ❑ It is important to **prepare** it with : Disaster Recovery Plans, Business Continuity Plan, Crisis management procedures...
- ❑ And it has to be **tested** in order to :
 - ❑ **Evaluate** and improve the procedures
 - ❑ Train and enhance **human response**

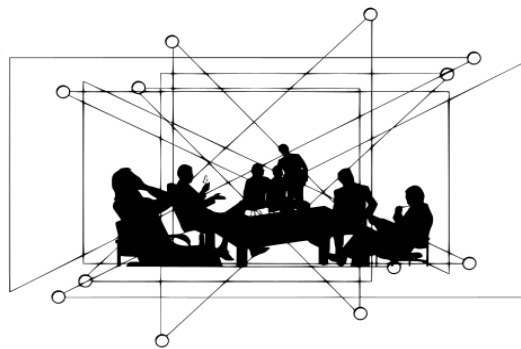
3 The limits we are facing

- ❑ Crisis drills / exercises are expensive
 - ❑ It needs a lot of work ahead
 - ❑ It needs massive manpower to run and evaluate
- ❑ They are weakened by human limits and often fail to reach satisfying goal because of :
 - ❑ Lack of flexibility in the scenario, because the control team can't adapt
 - ❑ Lack of realism, because the control team makes mistakes
 - ❑ Too much intensity that makes success impossible (Milgram effect)
 - ❑ Biased evaluation, which leads to false conclusions

4 The concept of the project

1. Design a tool for macro-designing drill scenario based on the IT architecture
2. Identify which human characteristics are involved in an efficient cyber crisis management and enhance accurate decision making
3. Define the data to collect and how
4. Define a methodology and framework for evaluation based on this data
5. Implement AI to perform :
 - a. Real-time objective evaluation
 - b. Real-time scenario adaptation, maintaining technical and behavioral realism
 - c. Objective final evaluation

4 The concept of the project



Crisis management team

Technical events, phone calls, emails, press...

Behavior, decisions, stress level, heart rate...



Control room + THREE-AI

5 The objectives and goals

- ❑ Make cyber crisis drills less expensive -> more affordable -> **train more** people and structures
- ❑ Better scenarios, more adaptative, more realism -> **train better**
- ❑ Objective evaluation based on set of human and behavioral data -> more accurate conclusions -> better **improvement plans**
- ❑ ***Bonus*** : Data collection during drills will produce a set of data for further research on (cyber) crisis management

6 The current consortium

Idea partners

	Organisation	Type	Country
1	Crisalyde	Small and Medium sized Enterprise	France
2	Profen Group	Small and Medium sized Enterprise	Turkey
3	H3M.IO	Small and Medium sized Enterprise	Turkey
4	PMO Partners	Small and Medium sized Enterprise	Turkey
5	itemis AG	Small and Medium sized Enterprise	Germany
6	Sistrade Software Consulting, SA	Small and Medium sized Enterprise	Portugal
7	ISEP - Institute of Engineering, Polytechnic of Po...	University	Portugal
8	SemLab BV	Small and Medium sized Enterprise	Netherlands
9	Opsis Pte Ltd	Small and Medium sized Enterprise	Singapore

7 We are looking for...

- ❑ A project coordinator (we are a 9-people company)
- ❑ Large industries working in AI and cybersecurity
- ❑ Laboratories
- ❑ More end-users with field experiments capabilities



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