



FÖRSVARSMAKTEN

# Integrating ADL into Viking 18 and the Way Ahead

## Agenda:

- The Viking series of exercises
- The Viking 18 effort and basic concept
- V18 Lessons Identified
- Summary V18
- Way ahead - MADLx



# The Viking Exercise

- Computer Aided Exercise
- Started 1999 (US-SWE MOU), held roughly every three years (8th time)
- + 2000 participants
- + 60 countries
- + 80 organizations
- 5 remote sites, 4 sites in Sweden
- Its aim is to train and educate participants – civilian, military and police – to operate together for multidimensional crisis responses and peace operations





# The e-learning effort in V18

The ADL effort in Viking 18 was meant to be the first step in integrating and maturing these sorts of capabilities throughout multinational exercises. The project involved three main goals:

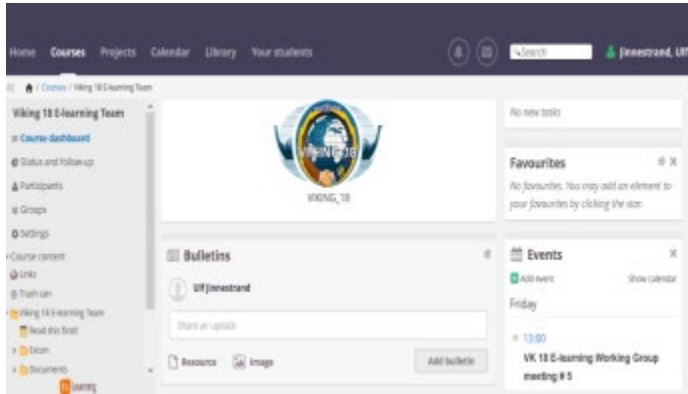
- **e-Learning:** Provide e-learning resources to enhance pre-training, just-in-time and after-action learning
- **Learning Analytics:** Connect pre-training data with performance data from the execution phase
- **Roadmap:** Identify lessons for further development of the basic concept, to inform a roadmap

# E-learning - Basic Concept

**Level 1:** Mandatory course(s)

**Level 2:** Recommended courses, depending on position in the exercise

**Level 3:** Course repository available to all participants



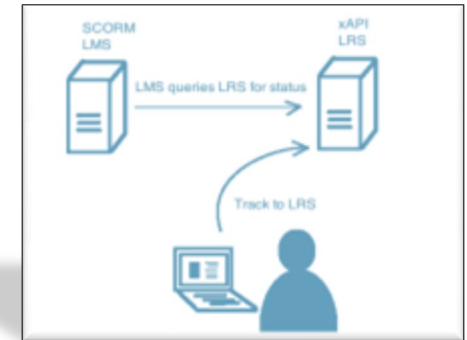
Delivered on a Swedish LMS  
29 e-learning courses  
2 courses purpose-built for V18  
6 nations contributed courses



Multinational e-learning WG

# Learning Analytics- Basic Concept

Comparing learning and exercise objectives using xAPI, a Learning Record Store, and a dashboard solution.



# Roadmap - Data Collection

- Data from the built-in reporting tool in the Viking LMS
- Data from the exercise management system
- **Interviews**
- Taking part in Exercise Evaluation (EXEVAL) meetings
- Working closely with the designated ADL-evaluator
- **Data from the final exercise evaluation form**
- Lessons identified from the e-learning working group
- **First Impression Report** – Viking 18 (Swedish Armed Forces FM2018-9496:2)



# Lessons Identified

## Formalize:

- ADL should be an **integrated part** of all exercise phases
- Make ADL part of the **core planning team** for future exercises
- Form a core planning team **mandated e-Learning working** group early in the process.

## Communication:

- Improve **strategic communication** about ADL to leaders, trainers and trainees
- Make sure to communicate that participants are required to do **mandatory e-Learning** before the exercise
- Plan how to **reach out to partner heads** and their participants

# Lessons Identified

## Learning resources:

- **Key content should be tailored** for the exercise and aligned with training objectives and exercise themes
- **Recommend content** for different elements in the exercise
- Make the courses **modular and as short as possible**

## Access:

- Access to the **internet** should be provided
- Consider **micro-learning and mobile access** as part of the concept
- Ensure ADL-system **usability**

# Lessons Identified

## Evaluation:

- Make sure ADL is a **part of the exercise evaluation** effort
- Make sure the evaluation team have full and immediate **access to the exercise learning analytics dashboard.**



# Summary

- **E-learning:**

We put together a wide range of resources that helped meet learning objectives and was considered relevant and useful by the participants

- **Learning Analytics:**

We were able to successfully connect results from the pre-training phase with performance data from the execution phase

- **Roadmap:**

By working collaboratively, the e-learning team and partners have identified a lot of different lessons during the whole process



## Maturing ADL in Exercises (MADLx)

### Five year roadmap: High-level actions and milestones

- Strategic communication
- Learning content
- Delivery systems
- Data analytics and visualizations
- Possible implementation targets (exercises)

**MADLx**

Setting foundations to measure ROI



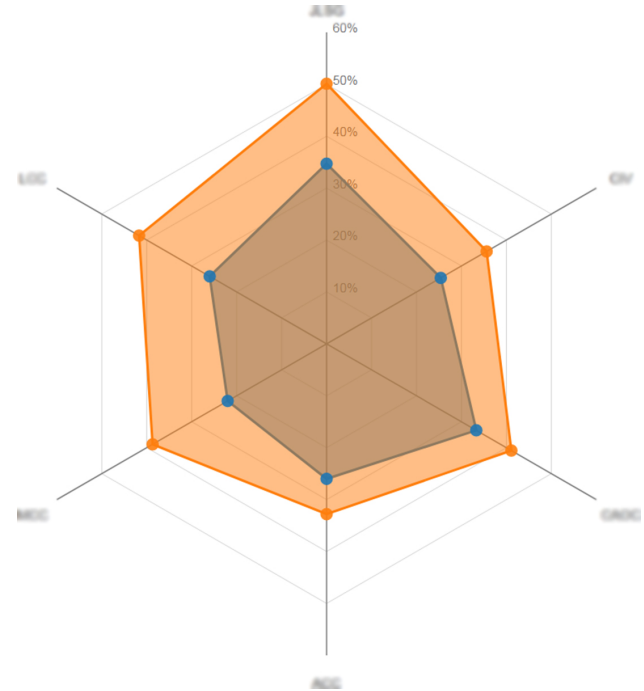
# Project Main Goal

Enhance military training and education by integrating ADL capabilities with joint and coalition training exercises



# Desired Outcome

- Improved learning outcomes in exercises
- Increased learning efficiency by improving the convenience of and ease-of-access to instructional materials
- Expanded readiness reporting by advancing learning analytics and their visualizations
- Strengthen partnership relationships by executing these efforts in collaboration with coalition military organizations



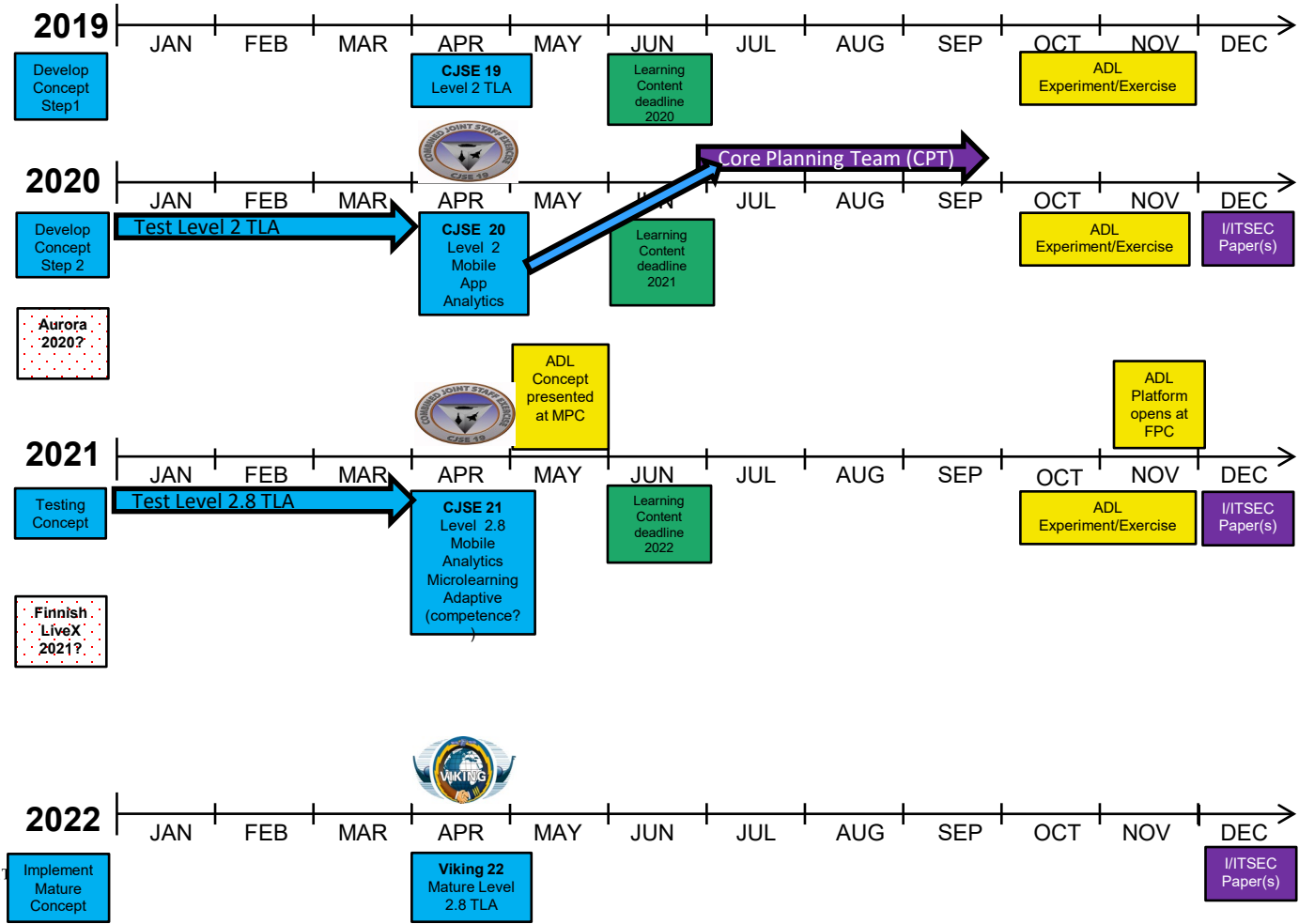
# Solution

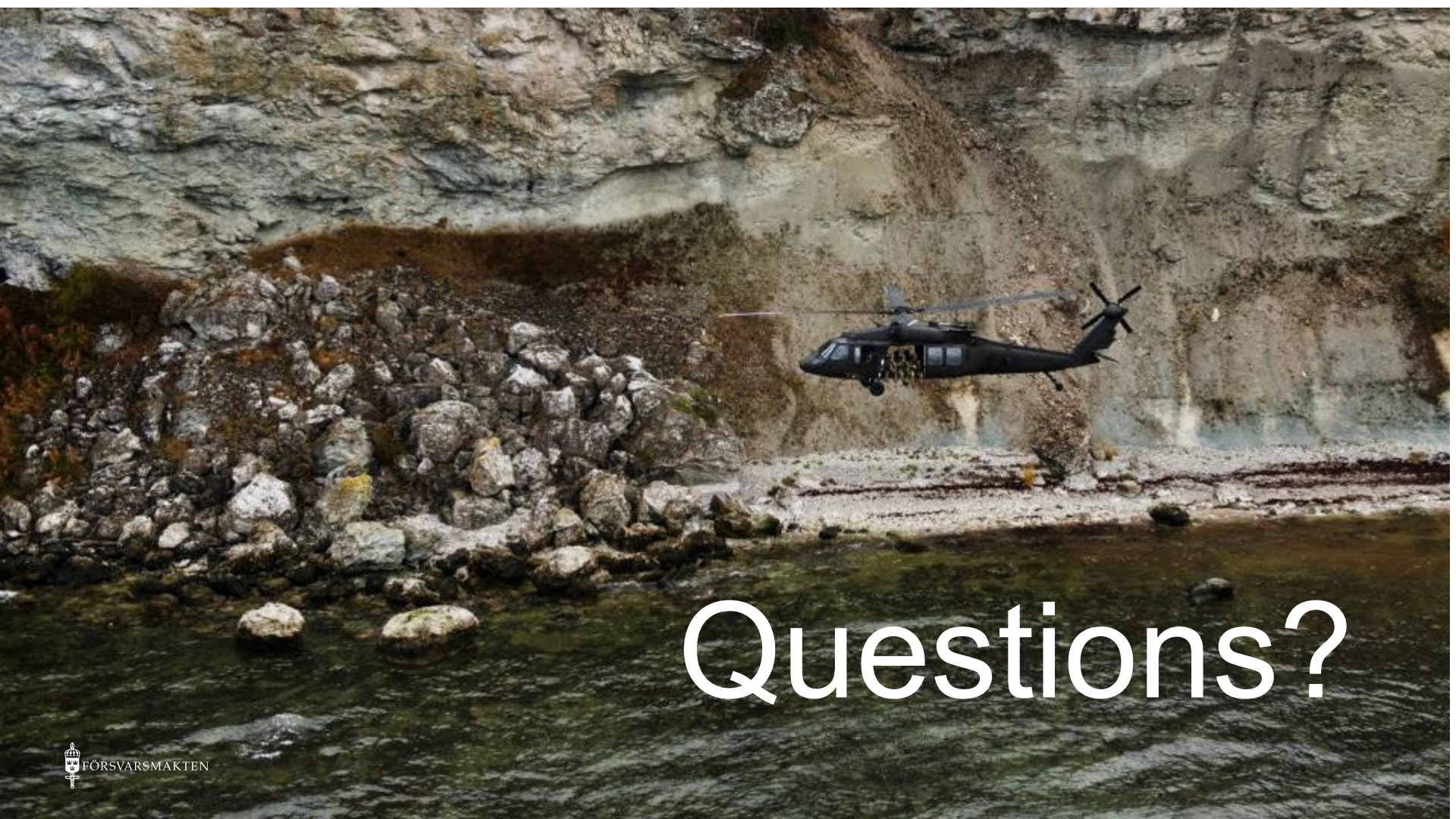
Research prototypes will be tested in **several multinational exercises**. Each of the target exercises will serve as event milestones to rapidly test, evaluate and promote or discard solutions for core ADL objectives.

Operational integration of ADL into the Viking 18 exercise suggests plenty of headroom for success here

# TIMELINE ADL in Exercises

ADL WG – Develop ADL Concept towards TLA Level 2.8





Questions?