

Disclaimer

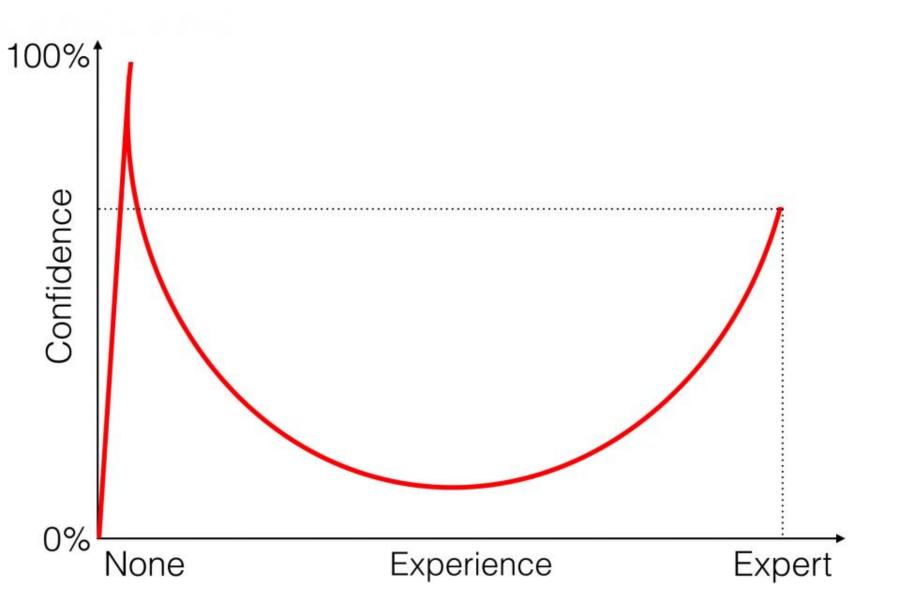
This presentation represents the personal view of the author and is in no way representative of official UK MOD policy.

The UK MOD is small, but still bigger than one man can know. He might have missed something.

The author is a full-time reservist serving beyond mandatory retirement age and is therefore possibly embittered and cynical after 40 years service...:-)



The first rule of Dunning-Kruger Club is... ...you don't know you are in Dunning-Kruger Club.



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How do we get better at something?

Practice Makes Perfect.

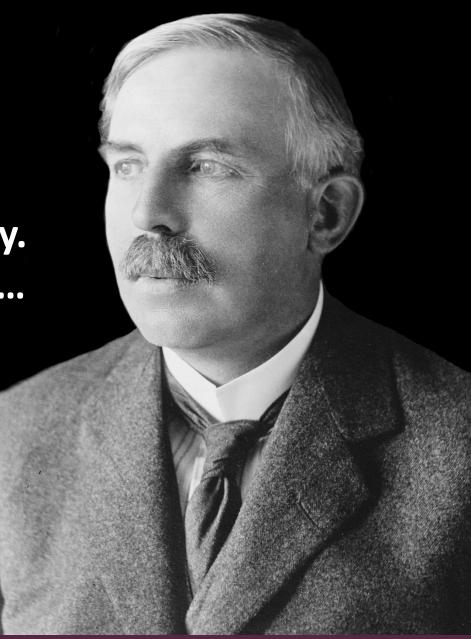


CAST Characteristics:

- Expensive.
- Complex.
- We have few of them.
- Future Force 2020 Steady State Training:
 - Reaction Force: Twice in 3 years.
 - Adaptable Force: Once in 3 years.

Gentlemen,
We have run out of money.
It is time to start thinking...

Sir Ernest Rutherford, 1962

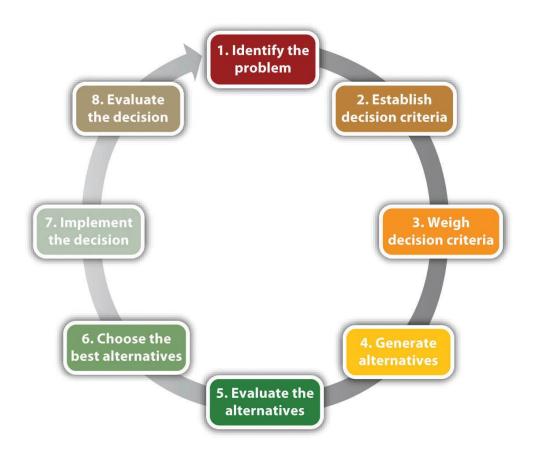


Why Wargame?

In order to practice decision making.

Against opposition.

To gain insights.



General Von Moltke

Process:

- Off-site.
- TEWT.
- Wargame.
- Validation.
- Records.



Wargames cover a broad spectrum:

Red Team COA Wargame Computer-Assisted Analytical Wargame

Matrix Game Seminar Free Kreigsspiel Rigid Kreigsspiel

Wargame

Creativity, understanding and original thought

Rigor and analytical precision

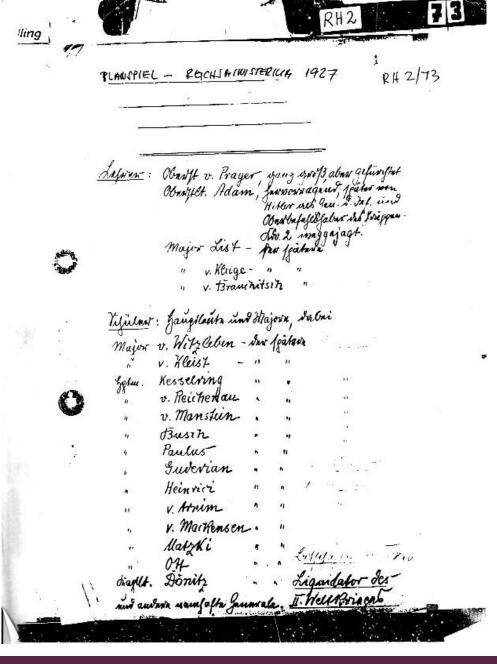


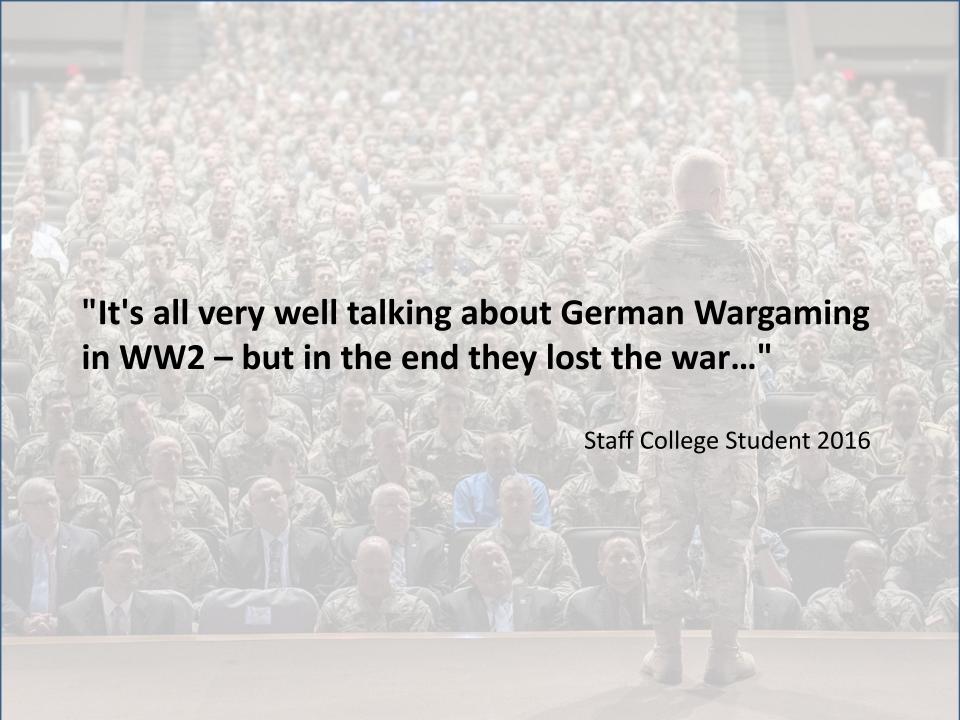
The Class of 1927

Participants in the wargame:

Von Prager*, Adam, List*,
Von Kluge*, Von Brauchitsch*,
Von Witzleben*, Von Kleist*,
Kesselring, Von Reichenau,
Von Manstein*, Busch, Paulus,
Guderian, Heinrici, Von Arnim,
Von Mackensen, Matzky, Ott,
Donitz.

Versailles Treaty.





The Western Approaches Tactical Unit

"The only thing that ever really frightened me during the war was the U-boat peril¹."

Winston Churchill

- 1942 We were losing the Battle of the Atlantic.
- Churchill's orders: "Find out what is happening in the Atlantic, find ways of getting the convoys through and sink the U-Boats".
- Series of Wargames to determine U-Boat tactics.
- Trained 5,000 escort commanders using Wargames.
- Wargamed German counter actions and created a sustain advantage for the rest of the war.

The Western Approaches Tactical Unit







Chilcott Report



- Didn't understand the situation.
- Didn't apply foresight about how events would develop, particularly post-warfighting.
- Ineffective decision-making:
 - Processes impeded information flow.
 - Strategy-making was weak and inflexible.
 - Insufficient attention paid to capability and resources required for the operation.
- How do we "scratch the Chilcott itch"?



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Adversarial training enriches PLA's combat experience

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China's armed forces are stepping up combat adversarial training and war games in a bid to make up for diminishing real combat experience among their ranks.

Field troops of the People's Liberation Army (PLA) are taking year-end military examinations in which their superior commands have introduced war games played by "red" and "blue" sides.

The testing method, new for all the PLA services, has been set down as a training regulation to improve overall battle effectiveness, said Maj. Gen. Chen Zhaohai, chief of the military training and arms department of the PLA's General Staff Headquarters.





What is "Hybrid Warfare"?

- Things like Operations Other Than War, Effects Based, Non-Kinetic, Hearts & Minds, Soft Effects, Shaping, Influence, Messaging, Grey Zone...
- Involving religion, training, morale, belief, cohesion, leadership, motivation, public support, political will...



What about computers?

- Rules, Triggers & Pre-Sets.
- Simple Rule-based behaviours.

Cannot deal with
 new ideas.



ALPHAGO 00:42:36



Surely AI and machine learning will give us the answer?



SUBSCRIPTIONS



GAMING & CULTURE –

Elon Musk's *Dota 2* AI beats the professionals at their own game

But humans did eventually prevail over the computers.

PETER BRIGHT - 8/14/2017, 5:06 PM



OpenAl takes on Dendi.

Last week was the high point of the *Dota 2* competitive year: it was the week of The International, Valve's biggest tournament. On Saturday, Team Liquid walked away with more than \$10 million after defeating Newbee 3-0 in the grand final.





Why Wargame?

To gain understanding.

- To practicing decision making.
- To appreciating risk.
- To exploit imagination.
- To understand competition & adversarial thinking.
- To understand those you work with.
- To learn from defeat.

Original Thought...





Major Tom Mouat MBE

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