


 <p>DEFENSIE LA DEFENSE</p> <p>VOORWAARDEN VAN VREDE PRIORITEIT A LA PAIX</p>	Evaluation of the communications during WWI	
	LtCol (GS) Eric MICHIELS Chief section SIGINT	
	29 Jun 15	




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Content

- Introduction
- About the communication assets in use during WWI
- From past to present
- Conclusions



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Introduction


~~Historical~~

~~Technical~~

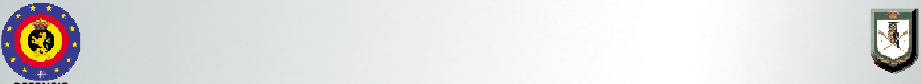
Intelligence / SIGINT

Control Comité I

Interception of all forms (EM) of communications (voice & data) & COMINT Analyse





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Field phone

What do I think about?

SECURE


WWI?

UNSECURE ?



Battlefield Layout Quality of the wires

Range / security

Continuous front / benefit



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Radio (TSF)

What do I think about?

UNSECURE

WWI?


UNSECURE ? How

Limited range of frequencies

Technical limitation



Could receive several stations on one frequency

Limited number of assets



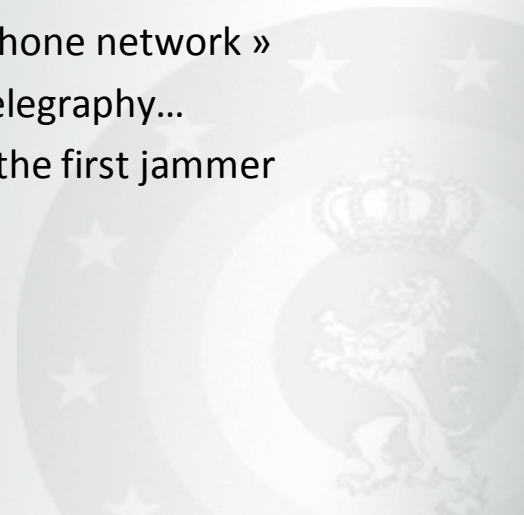
Crypto Vs Interoperability
Geolocalisation / order of battle

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And...

- « Public phone network »
- Ground telegraphy...
...and the first jammer

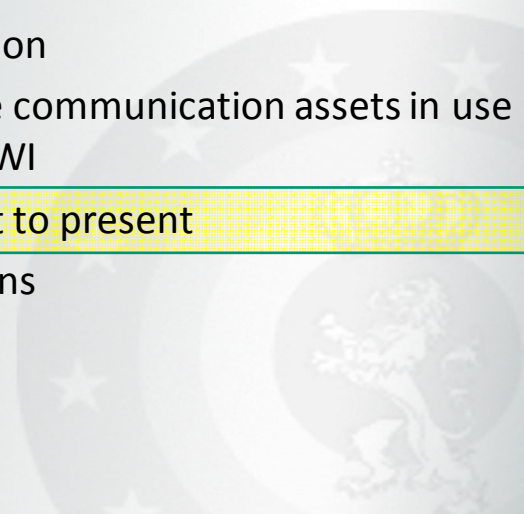


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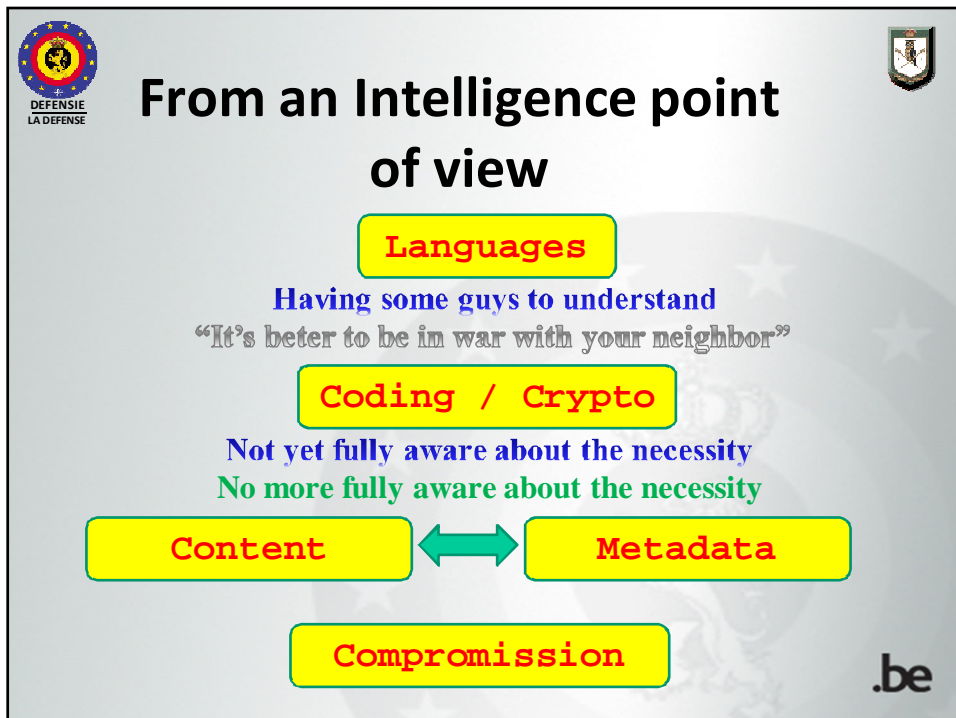
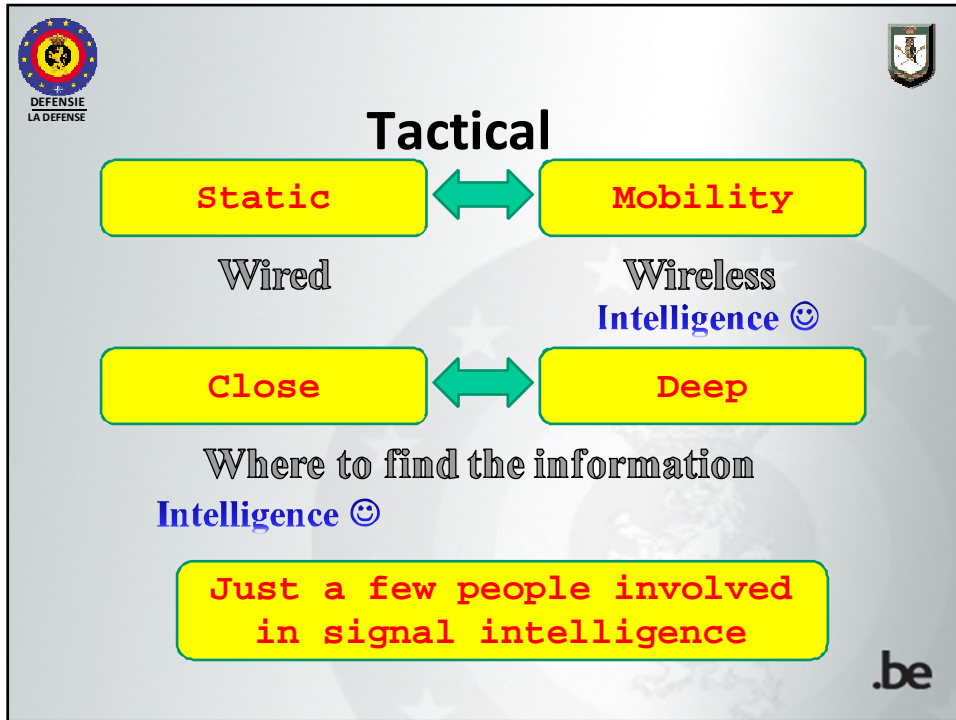




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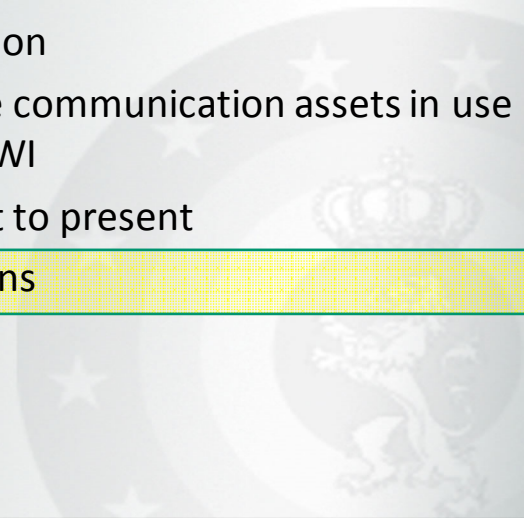
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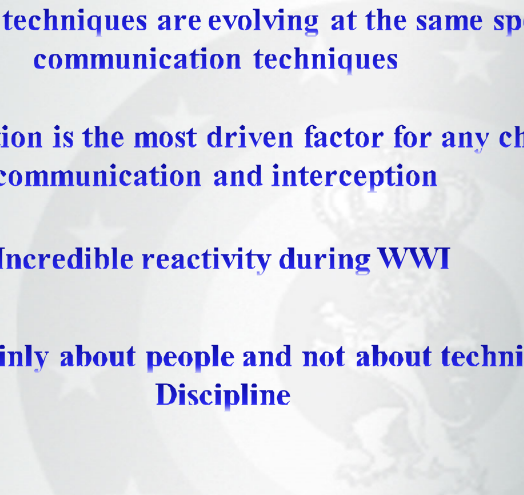
Everything remains the same

Interception techniques are evolving at the same speed as communication techniques

Tactical evolution is the most driven factor for any change in communication and interception

Incredible reactivity during WWI

**It is mainly about people and not about technics
Discipline**



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DEFENSIE
LA DEFENSE

DIFFUSION RESTREINTE

Thank you for your attention

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