



26th annual **INCOSE**
international symposium

Edinburgh, UK
July 18 - 21, 2016



“Systems Engineering helping to raise public awareness”

OTY PRODUCTIONS / Olivier TERRIEN

Paper 115

I, author

“Olivier Terrien is an electronics systems engineer in the defense sector. An Auditor for France’s Institution of Advanced Studies of National Defence (IHEDN), he is raising awareness among a broad public about today’s omnipresent electronics and is popularizing techniques, methods and uses associated to this domain”.



Our Company



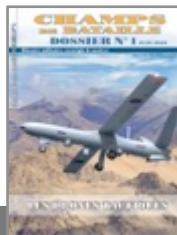
is a French company specialized in raising awareness and popularizing technical domains.



*Linear way to
develop new publications*



2009



2010



2011



2012



2013



*SE approach to
design new projects*

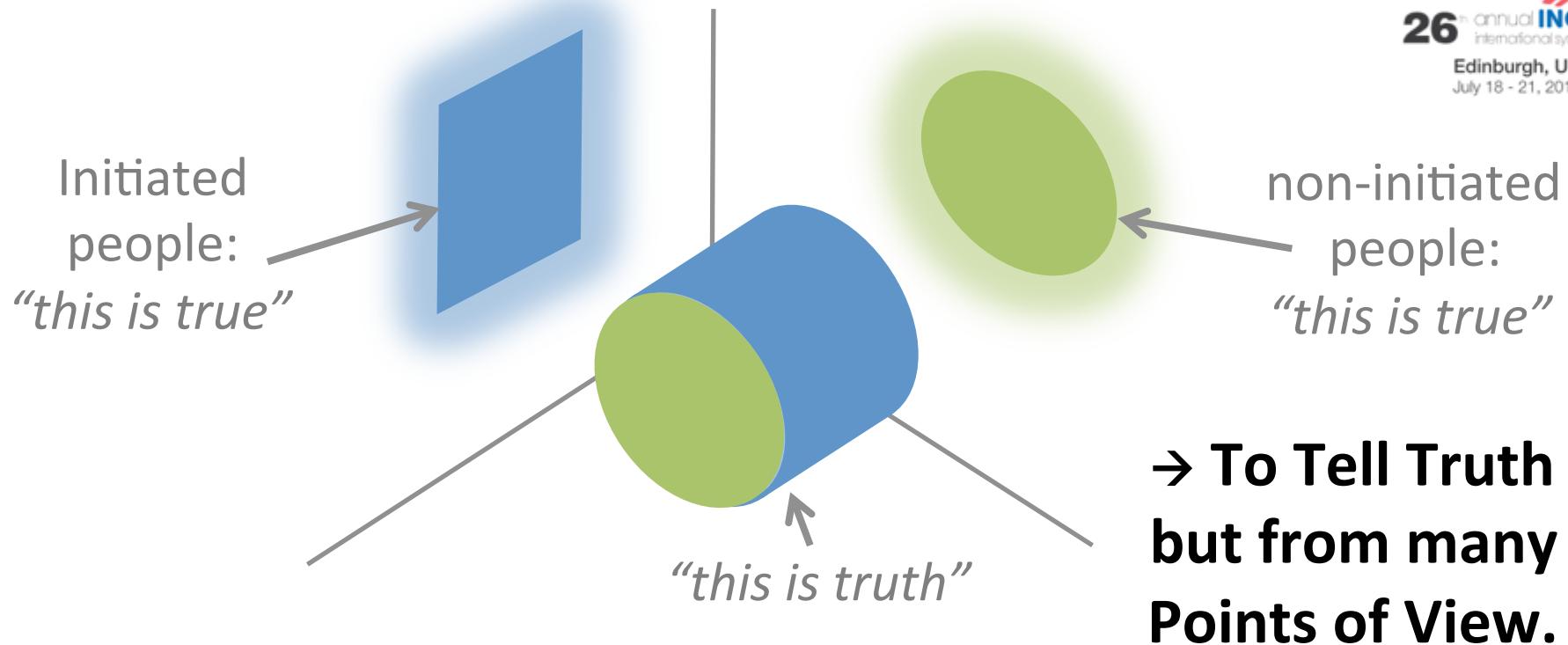


2014

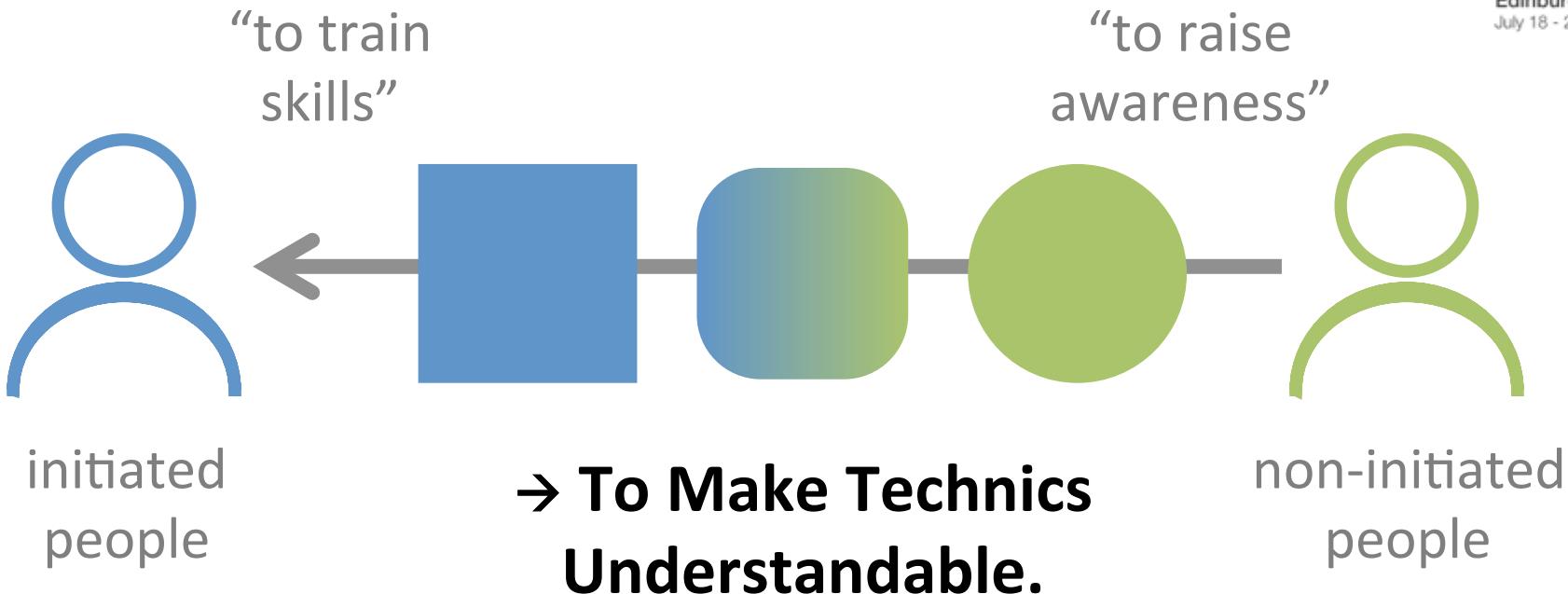


...

Our Activity



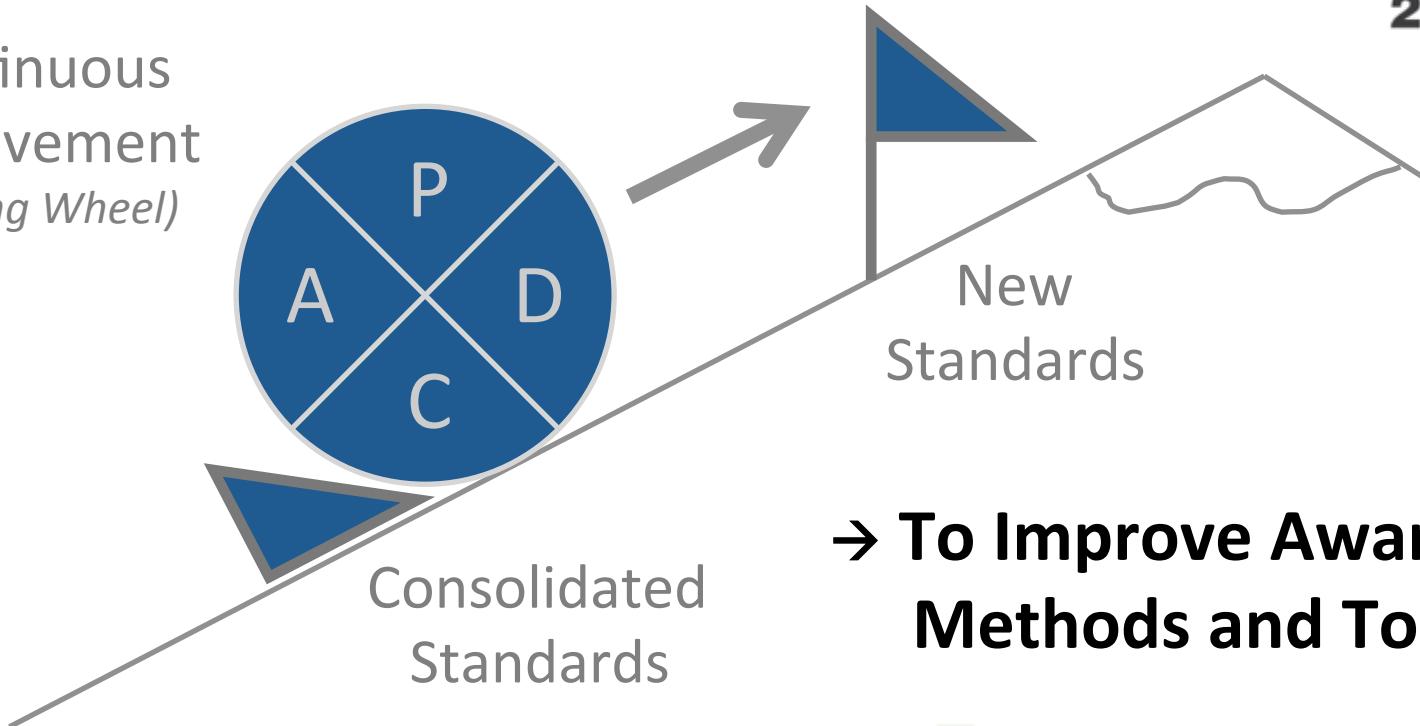
Our Added Value



Our Journey



Continuous
Improvement
(Deming Wheel)



Our Paper

“Systems Engineering helping to raise public awareness” (paper 115)



2012



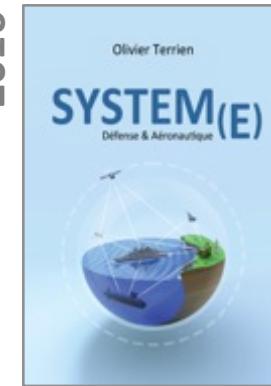
36 STRAT

2014



CROWS

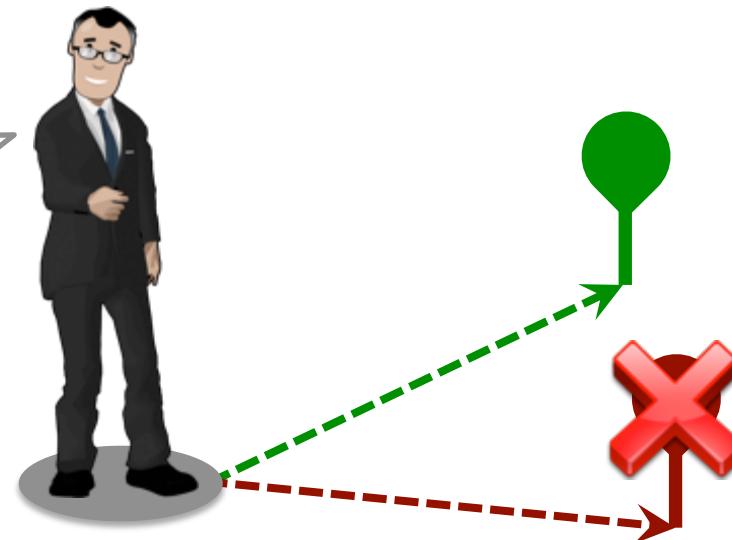
2016



SYSTEM(E)

#1: Define targets

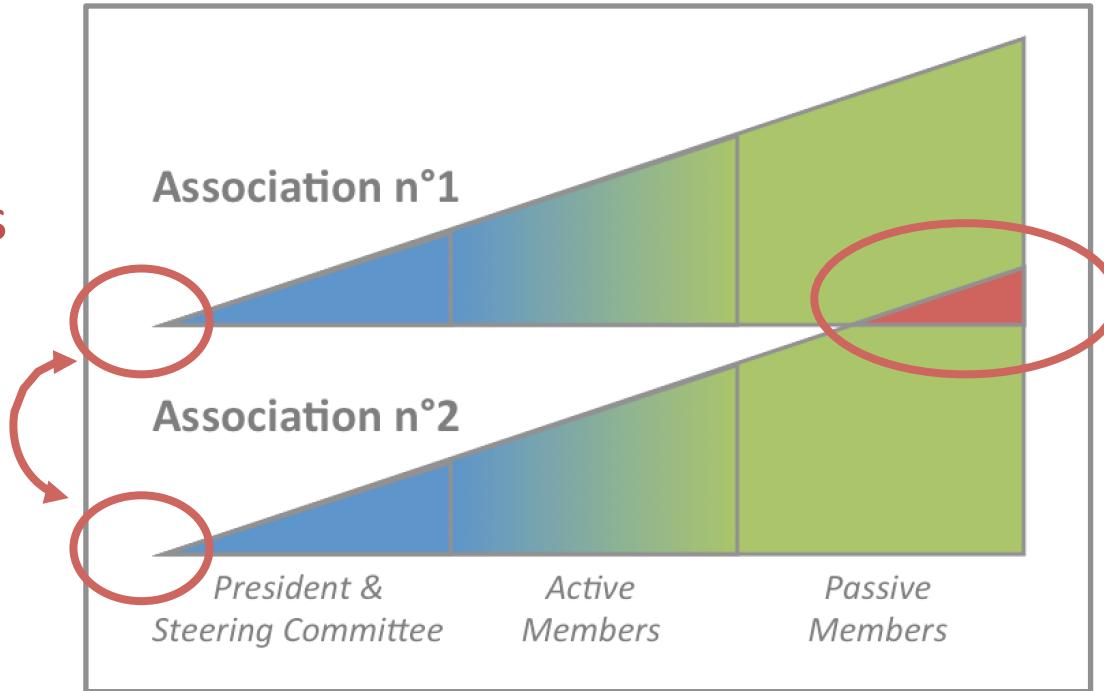
The 'Why?' and
the 'What?' of
a project



#1: Political Level of a Project.

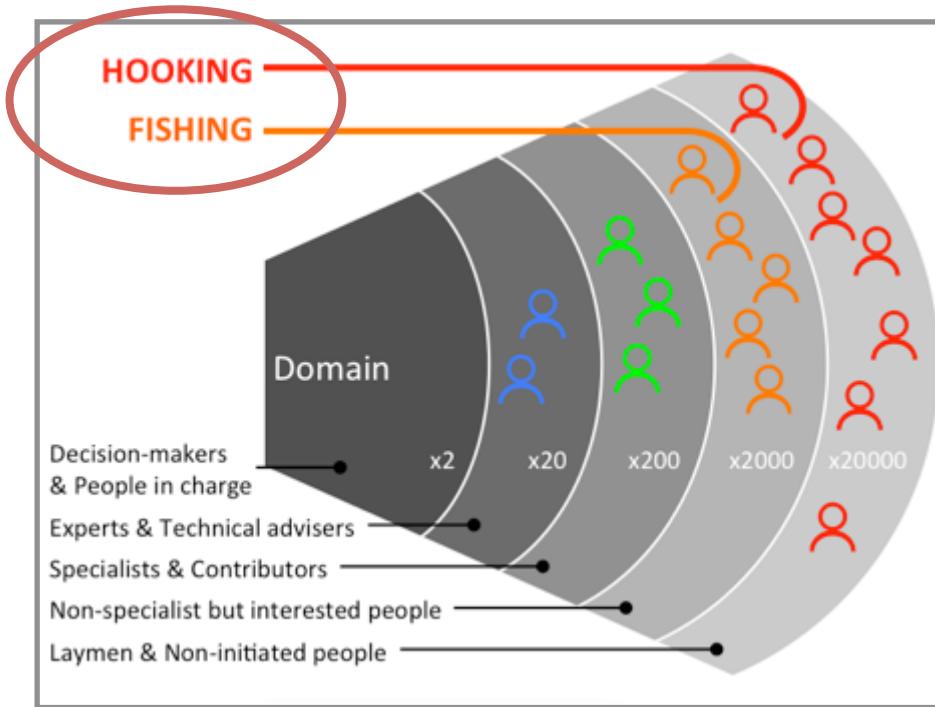
#1.2012: known targets

Awareness
through
sharing
events

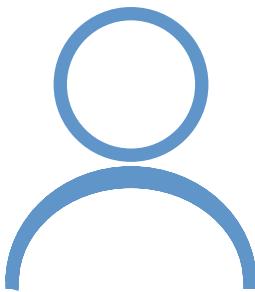


#1.2014: rings of targets

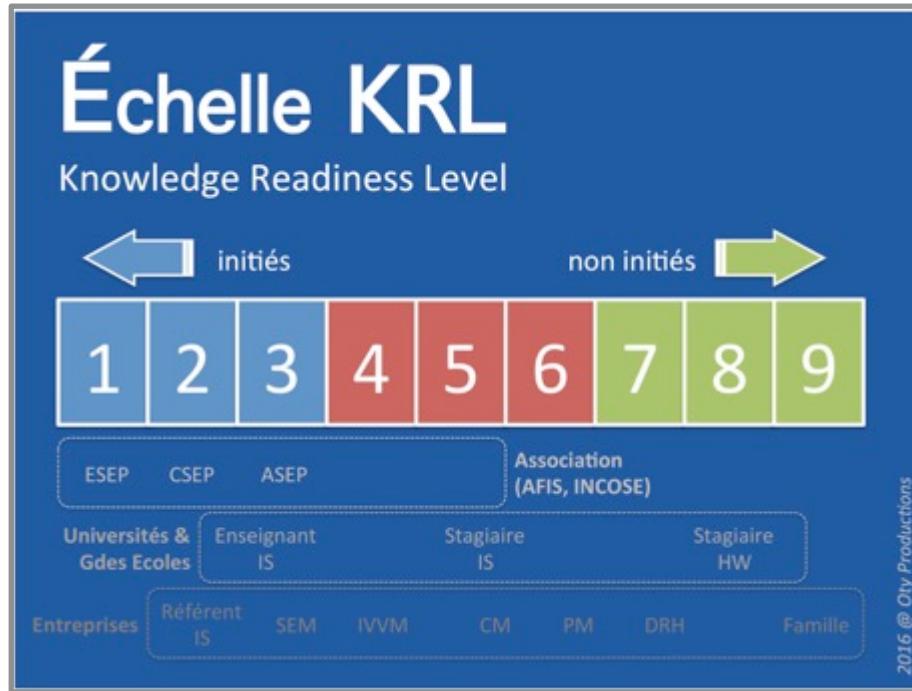
Different vectors for different rings of effects



#1.2016: KRL



initiated
people



non-initiated
people

Death Valley

#1: Political Level



With a SE approach,
we better worked on
context and purpose
of our projects.

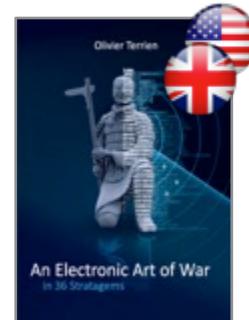
#2: Apply principles



#2: Strategical Level of a Project.

#2.2012: Sequence

We produced vectors one by one.

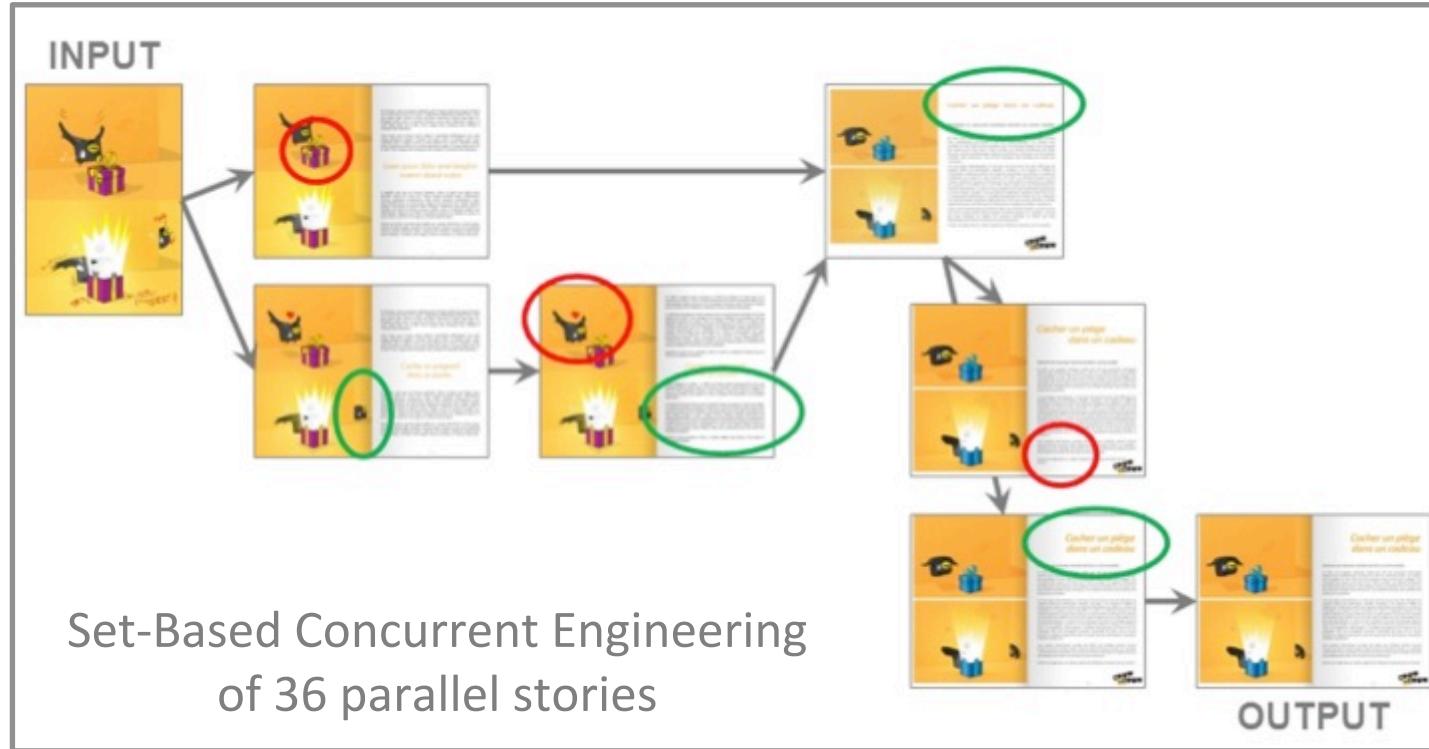


Book in French

Conference in French

Book in English

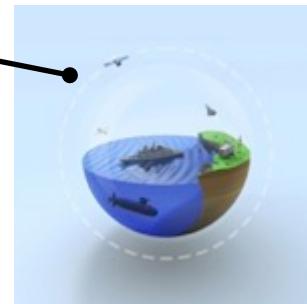
#2.2014: SBCE



#2.2016: Multiple Projects



SYSTEM(E)



SYS-DEF

3

2

1



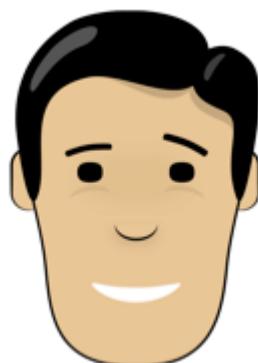
SYS-TRANS



SYS-NRJ

→ To Address
Emerging Sectors

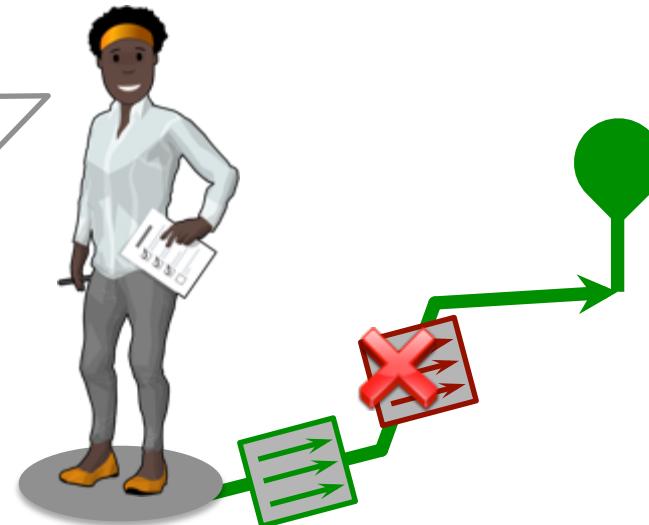
#2: Strategical Level



With a SE approach,
we better worked on
combinations to
perform our missions.

#3: Deploy tools

The 'which way to optimize means?' and the 'which tayloring of methods and tools?'

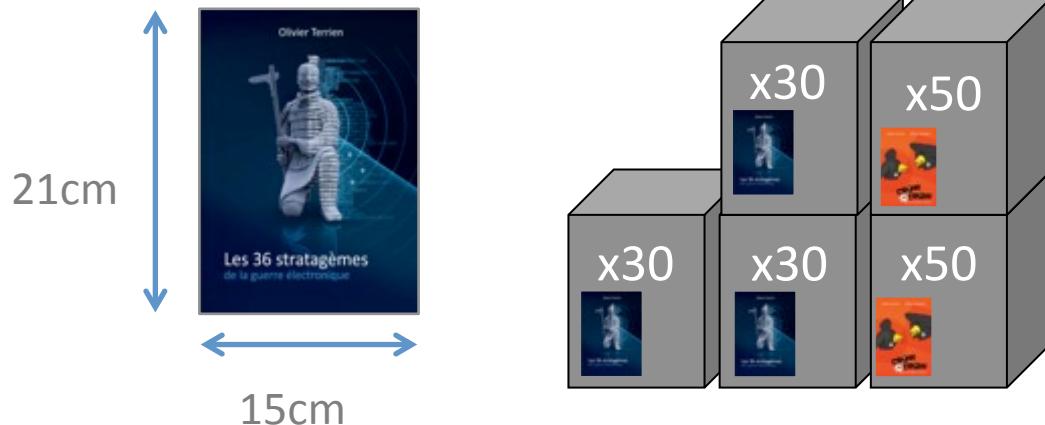


#3: Tactical Level of a Project.

#3.2012: A5 Format

In 2012, we choose A5 Format

→ to re-use printer paper boxes.



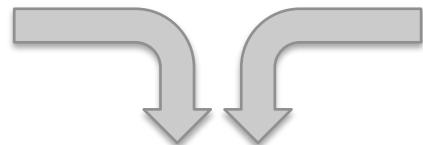
→ To Ease
Inventories.

#3.2014: Poka-Yoke

In 2013, errors during shipping tasks.



Black Covers



Red & Blue
Covers



→ To Introduce
Poka-Yoke.

#3.2016: Req.Mgt.

We use visual requirements.

→ to fertilize links between elements.



#3: Tactical Level



With a SE approach,
we better worked on
coherent sets of
multidisciplinary
elements.

Our definition

“A system is a composite set of hardware, software and human elements whose synergy is organized to respond independently to an end within a given environment”.

For our projects, it means books, goodies, slides... to raise awareness within a technical environment.



Our Conclusion about SE

“Systems Engineering is as much of a journey as it is a destination”.



www.whatisasystem.com

