



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*

*SE approach to
design new projects*



2009



2010



2011



2012



2013

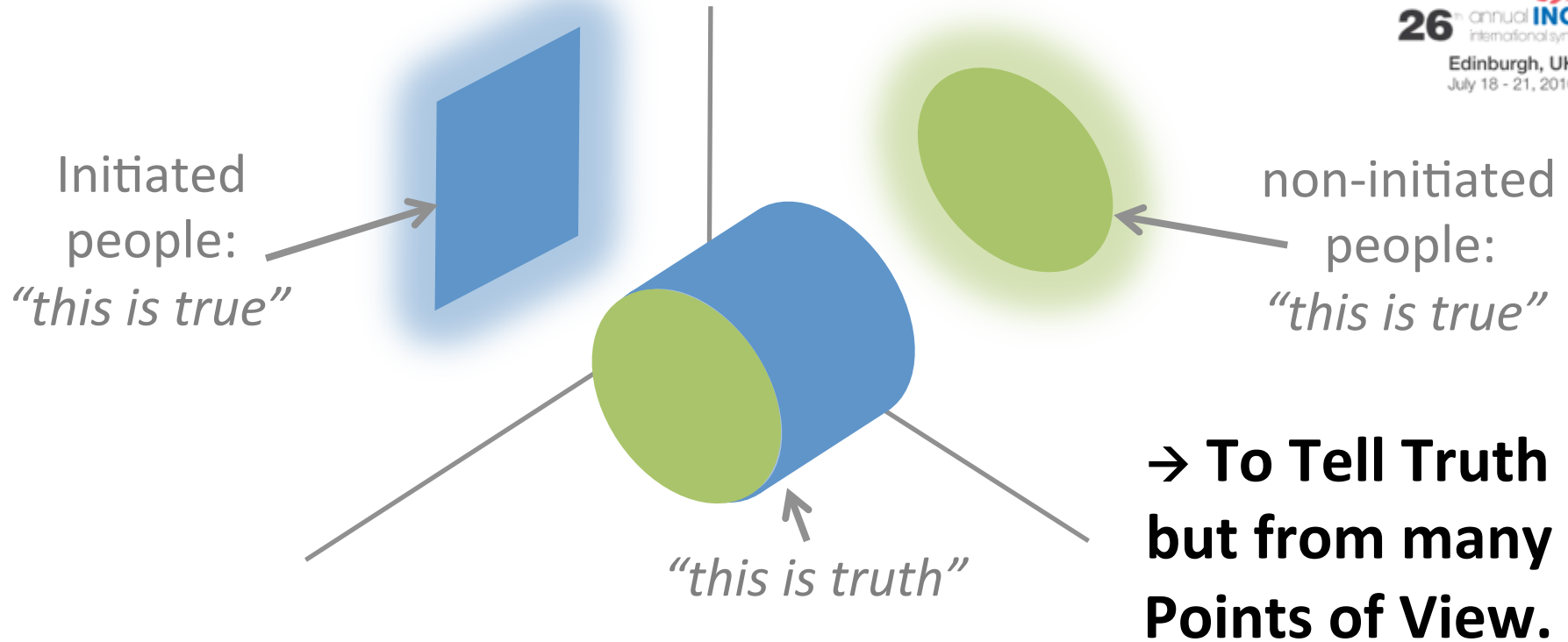


2014

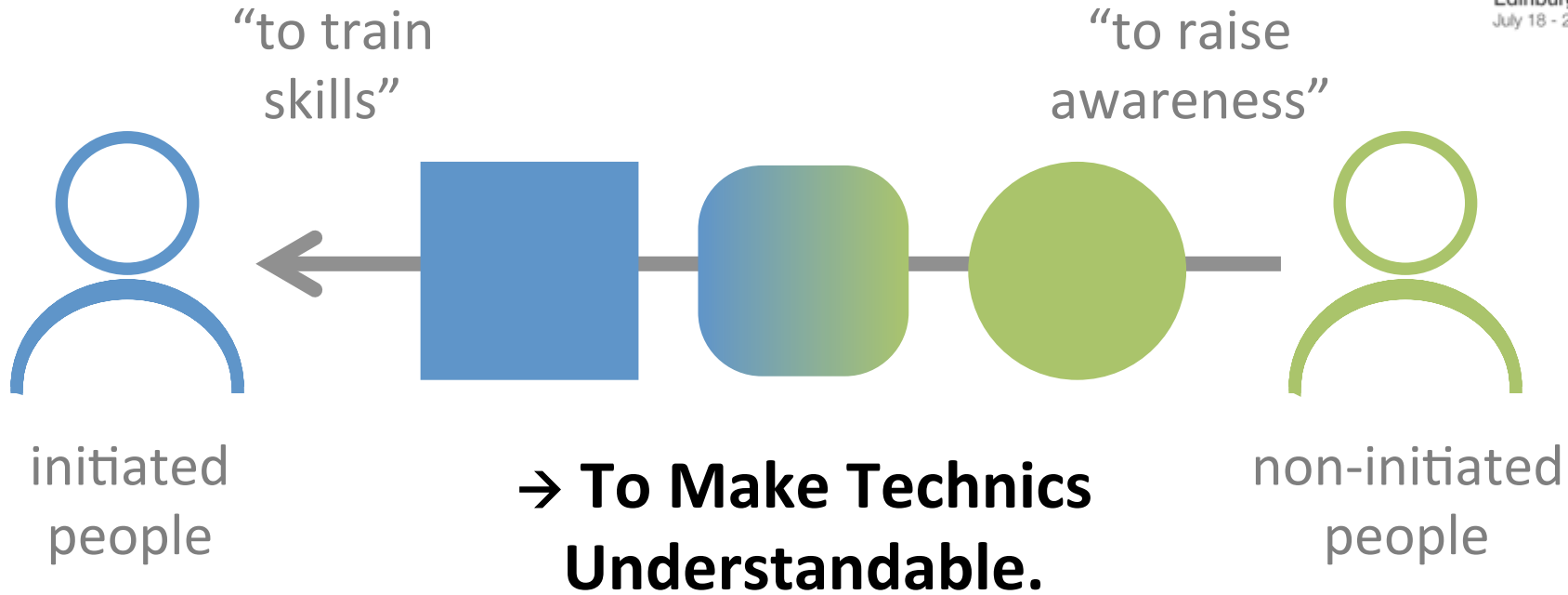


...

Our Activity

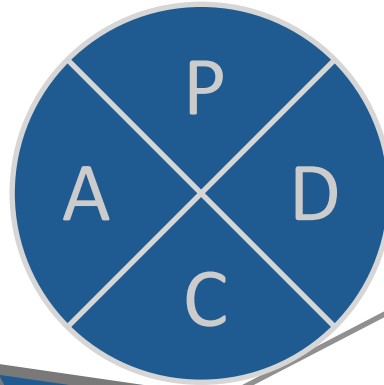


Our Added Value



Our Journey

Continuous
Improvement
(*Deming Wheel*)



New
Standards

Consolidated
Standards

**→ To Improve Awareness
Methods and Tools.**

Our Paper

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

2012



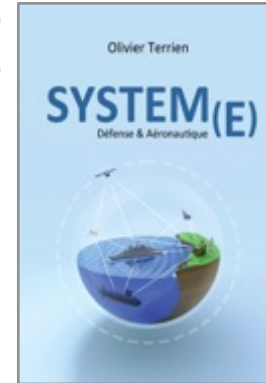
36 STRAT

2014



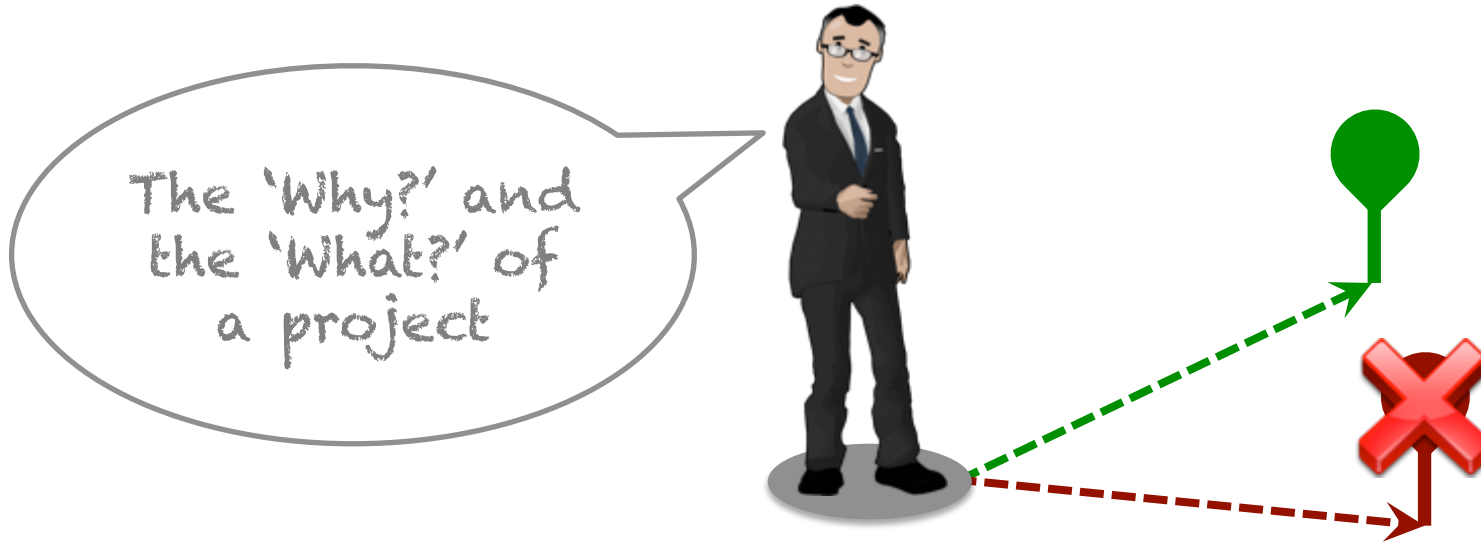
CROWS

2016



SYSTEM(E)

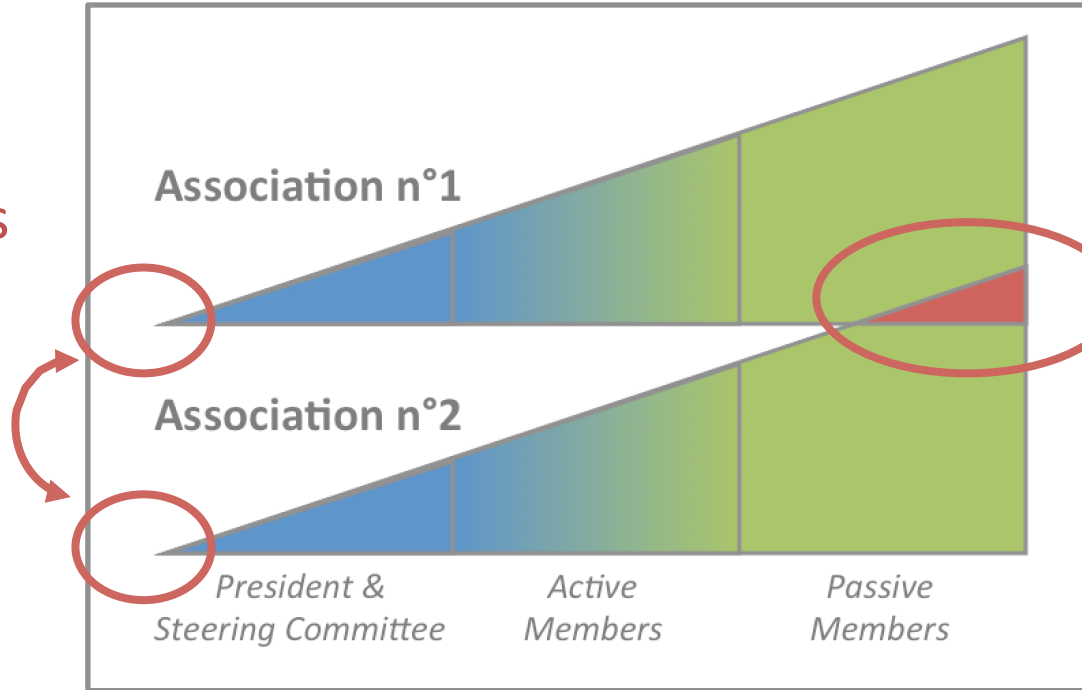
#1: Define targets



#1: Political Level of a Project.

#1.2012: known targets

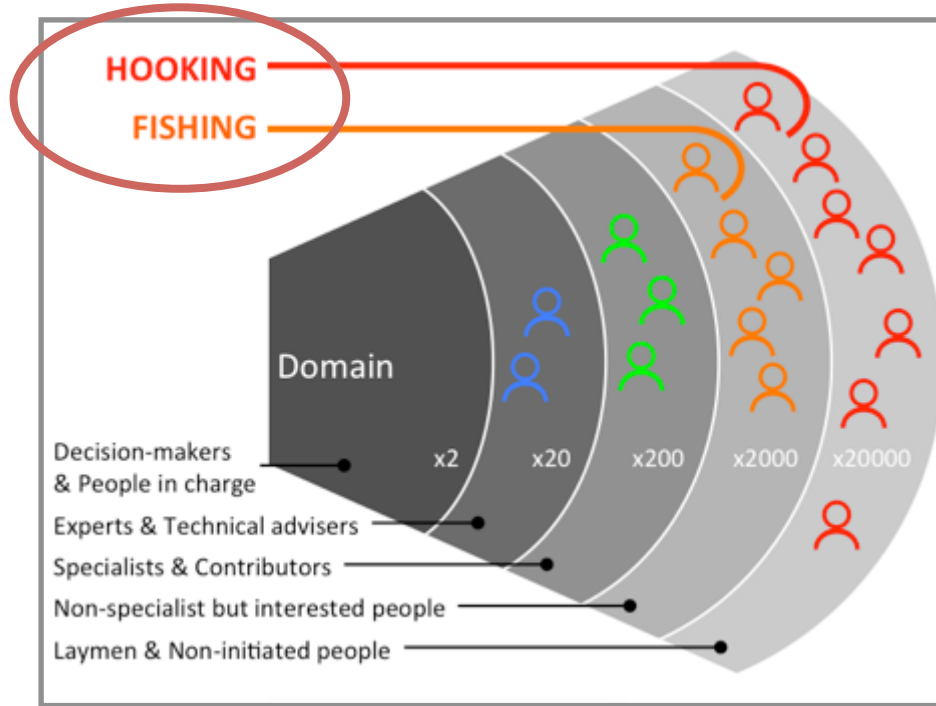
Awareness
through
sharing
events



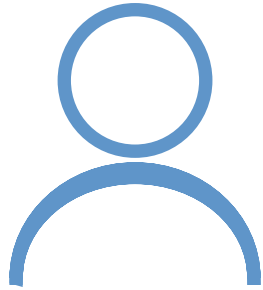
Awareness to
new comers

#1.2014: rings of targets

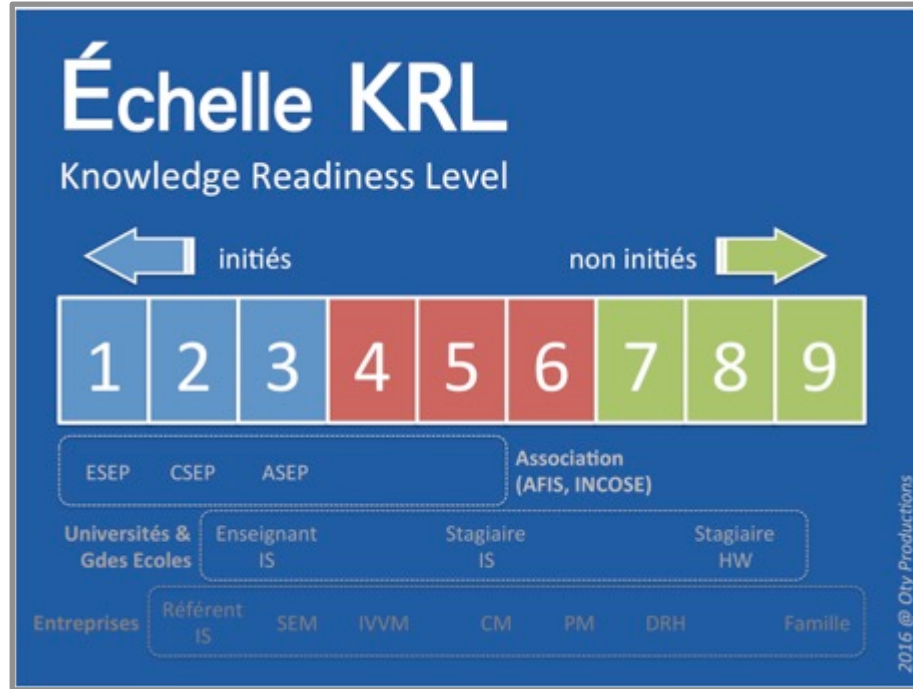
Different
vectors for
different
rings of
effects



#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



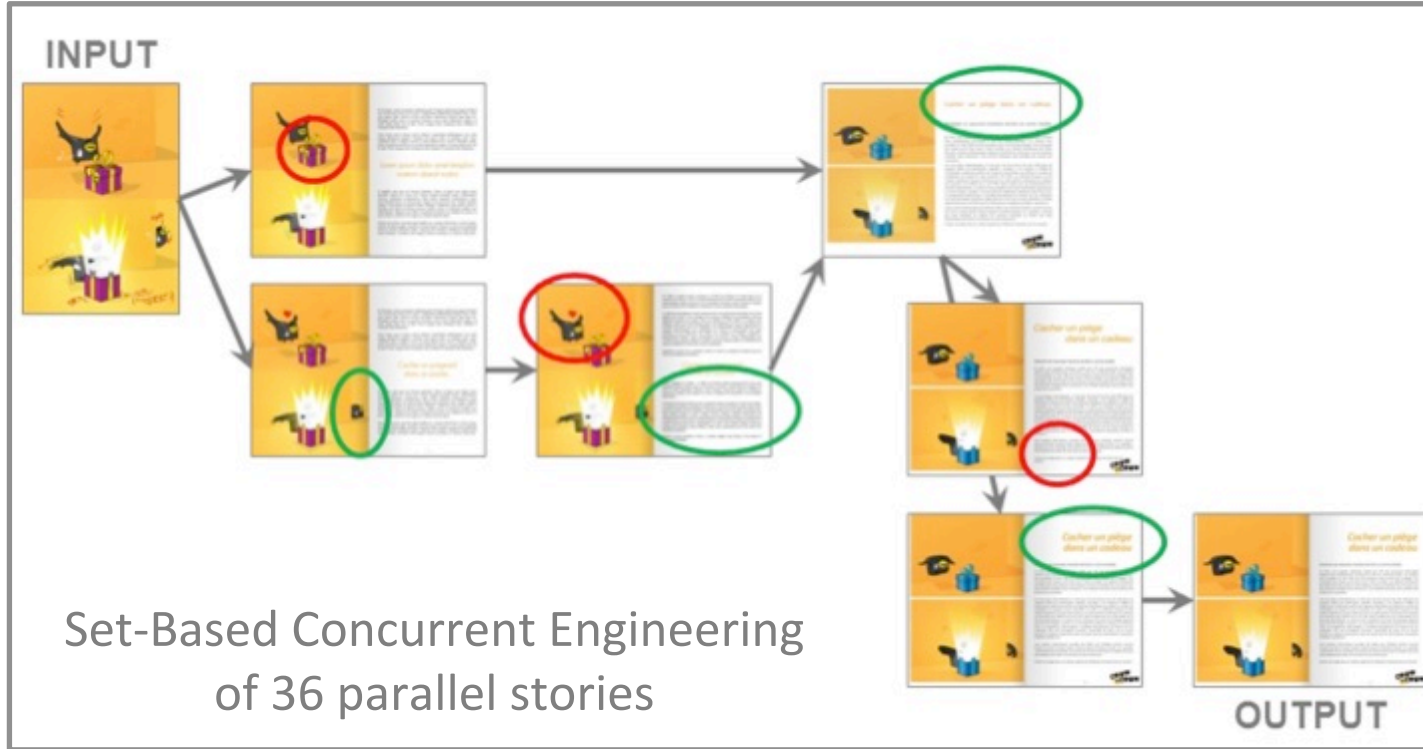
Book in English

#2.2014: SBCE



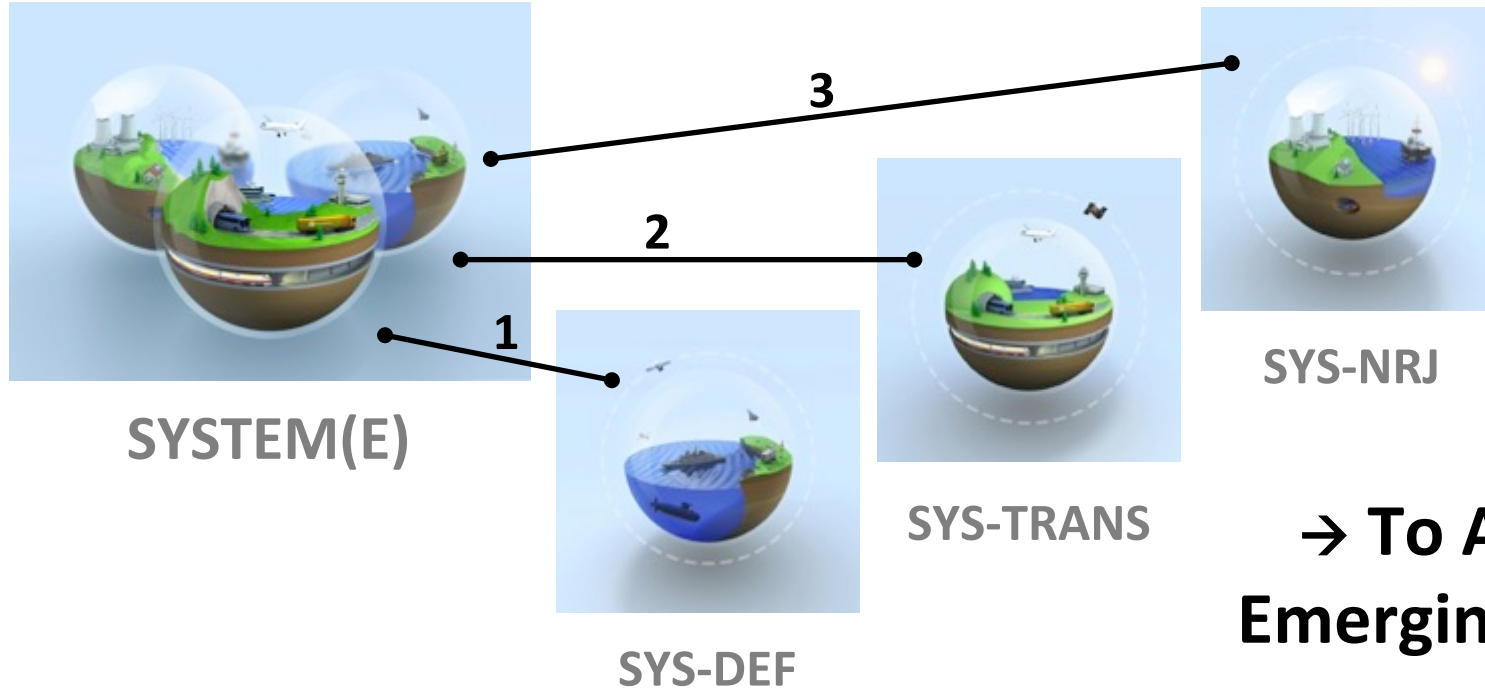
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x 36

#2.2016: Multiple Projects



**→ To Address
Emerging Sectors**

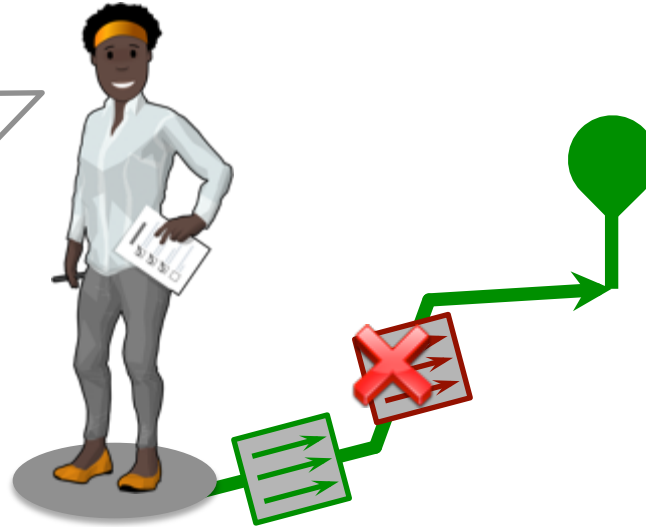
#2: Strategical Level



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

#3: Deploy tools

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



#3: Tactical Level of a Project.

#3.2012: A5 Format

In 2012, we choose A5 Format

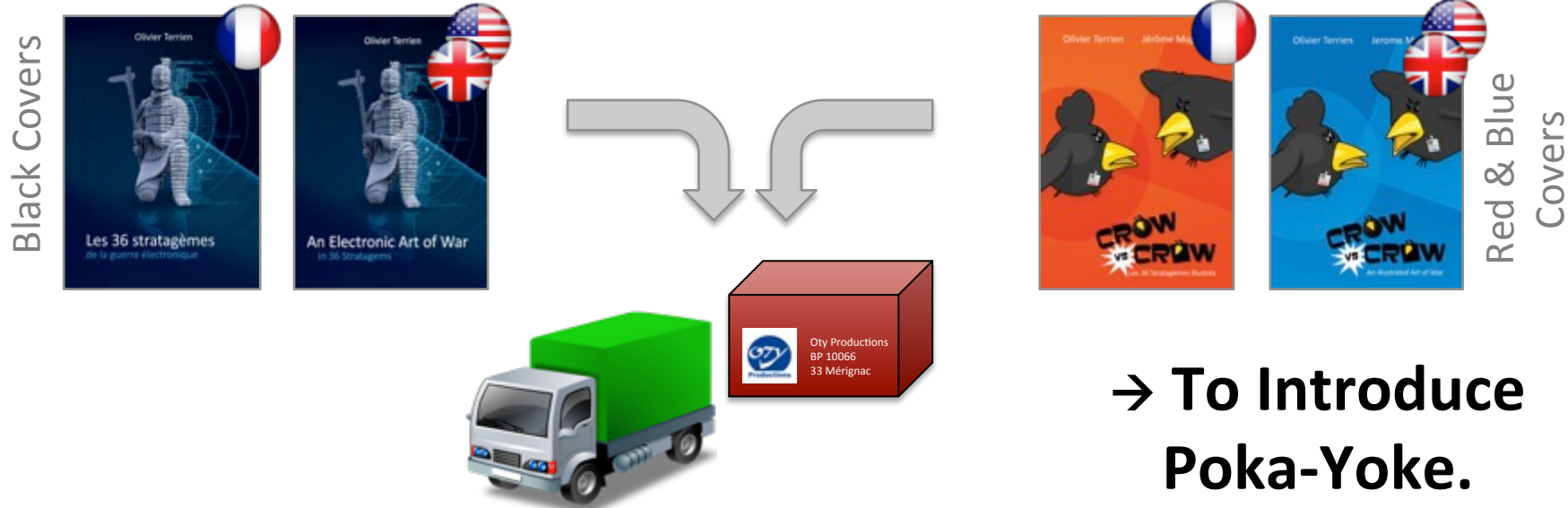
→ to re-use printer paper boxes.



→ To Ease
Inventories.

#3.2014: Poka-Yoke

In 2013, errors during shipping tasks.



#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



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