SWISSED23 Team of teams, system of systems

ITHAKA

The knowledge journey of a System Engineer through a system's life-cycle Its challenges, uncertainties, inner and outer relationships, teams, methodologies and tools inspired by "Ithaka" the poem of Kostantino Kavafis

^{By} Leardi Carlo

AISE, INCOSE Italian Chapter, Director of Events

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Leardi Carlo

AISE, INCOSE Italian Chapter, Director of Events carlo.leardi@incose.net

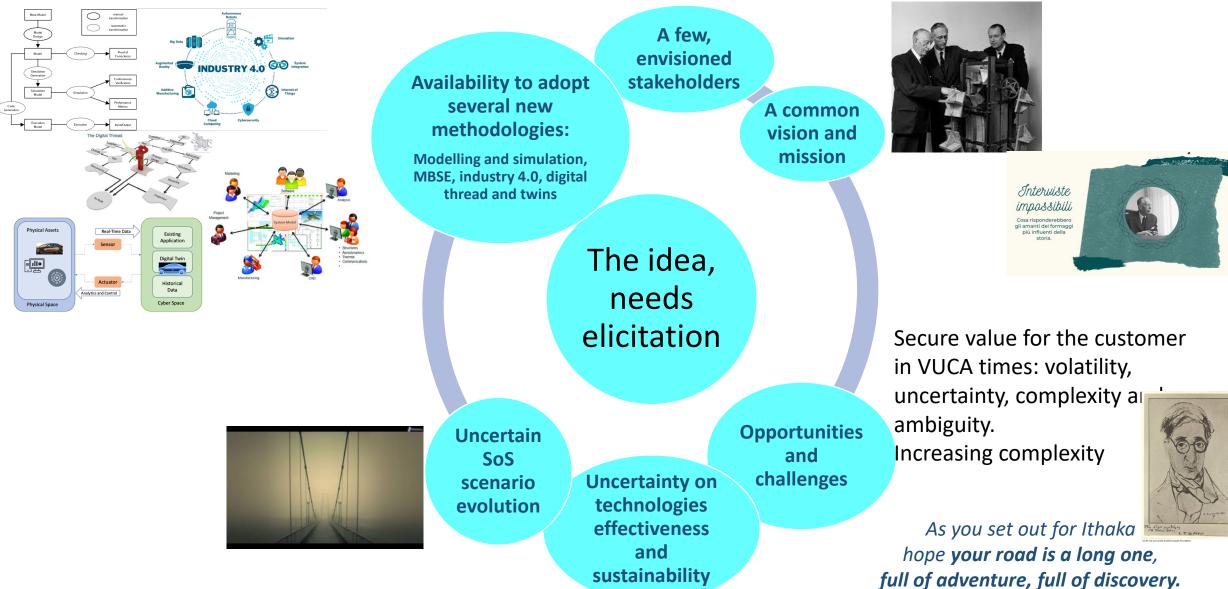


Carlo Leardi, graduated in electronic engineering in Genova Italy.

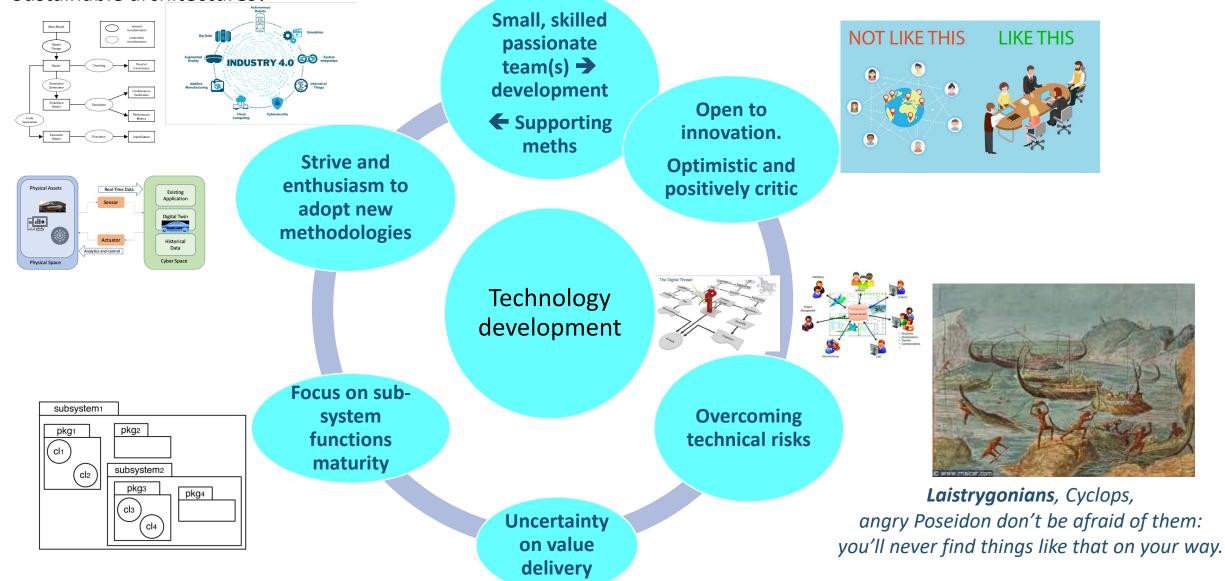
His professional background starts with quality assurance responsibility evolving in the last years to full verification, validation and testing commitment within complex systems development deployment projects in the following areas: automotive, freight railways and packaging industry. As a passion before and today as a full job, he is dealing with Quantitative Systems Engineering on a day-to-day application and coaching of a full range of statistical and simulation methodologies supporting the decisional process. He published several articles in Engineering and Systems Engineering journals. He is certified CSEP, one of the founders and past President

of the INCOSE Italian Chapter and founder of AISE, the Italian association of Systems Engineering. He taught at the Systems Engineering Master, ForteMare and Strategos. He is serving the Incose Italian Chapter as director of events and coordinator of the Verification, Validation and Operation working group.

Looking head and believe



Low hanging fruits What available? Gap analysis. **Time for enthusiasm and sweat** Sustainable architectures?



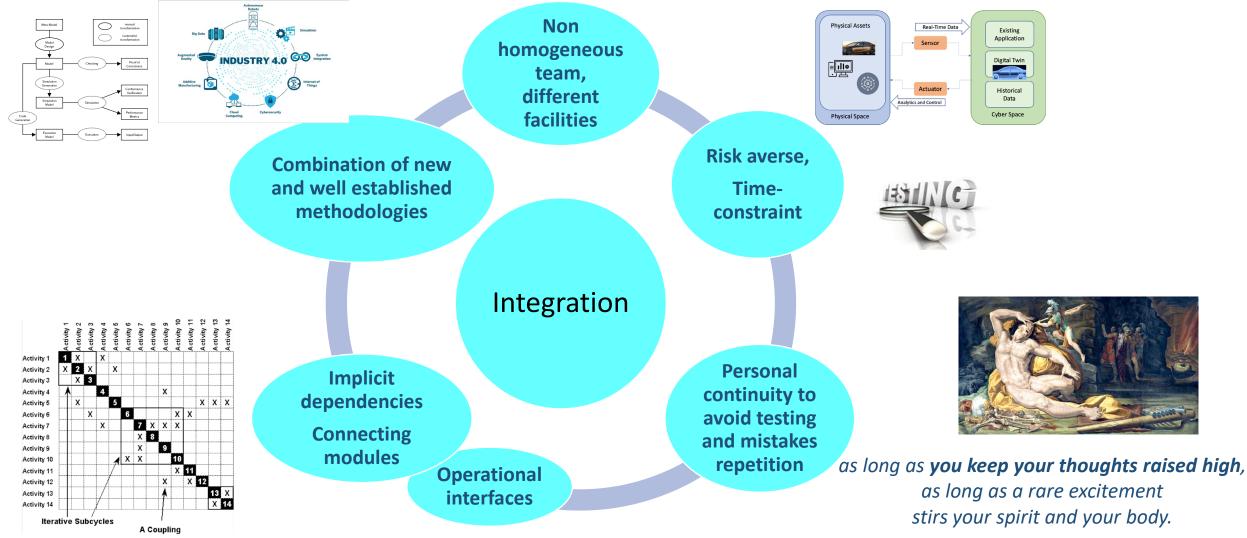
Put together, if you can...

"New" systemic methodologies and tools

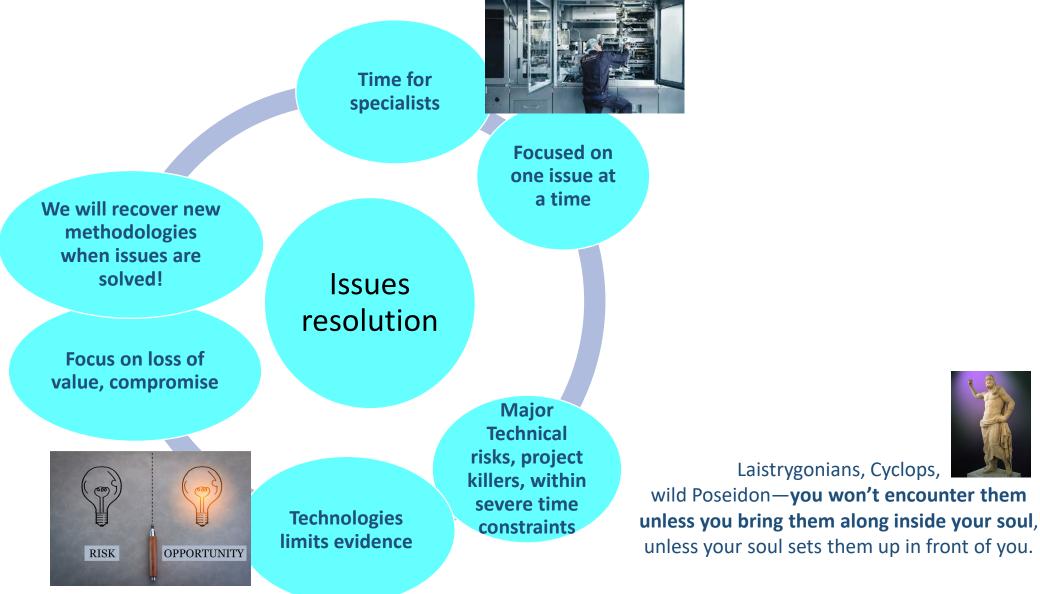
Optimize info/effort cost

System view and operations

Integrate Models!

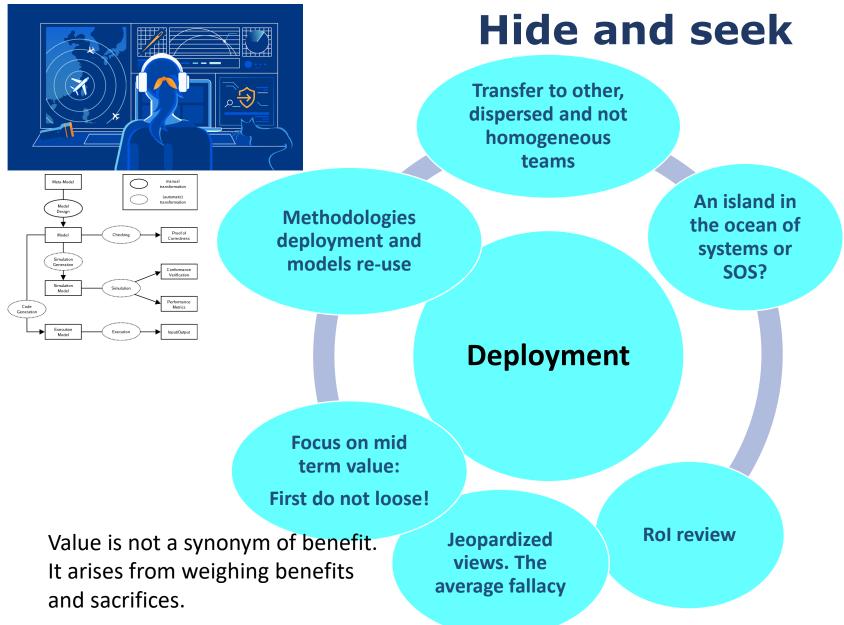


Make and re-make

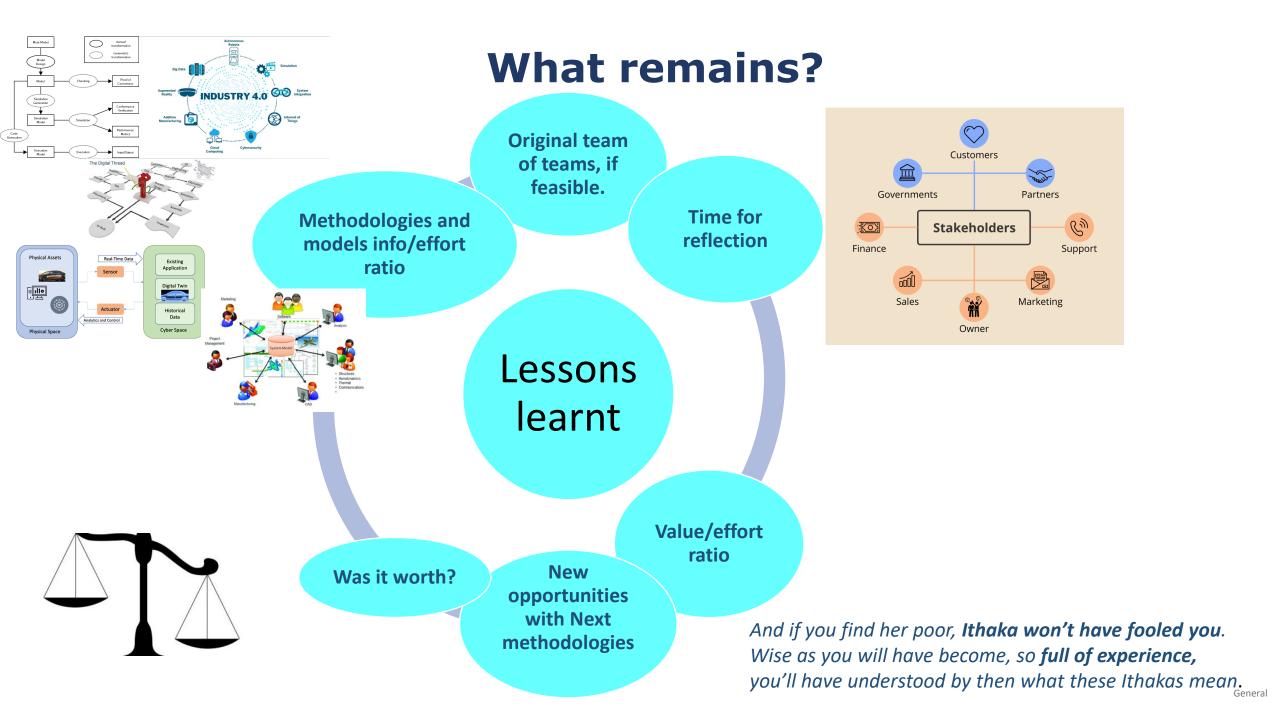




General



Keep **Ithaka always in your mind**. Arriving there is what you're destined for. But **don't hurry the journey at all**. Better if it lasts for years, so you're old by the time you reach the island, wealthy with all you've gained on the way, not expecting Ithaka to make you rich.



Wrap-up

Teams diversity in terms of numerosity, homogeneity, focuses, skills deeply impact the System and System of Systems life-cycle.

Methodologies/tools pass from "enthusiasm" to "challenges and struggle". If properly supported some of them deliver value and get part of the company "best practices" portfolio.

Opportunities and risks continue their "tug of war" hopefully reaching the desired equilibrium necessary to deliver value with continuity and minimizing quality losses.

Uncertainty changes aspect according to scenario and successful implementations.

