Smart Leadership*

CSSS2010 Project

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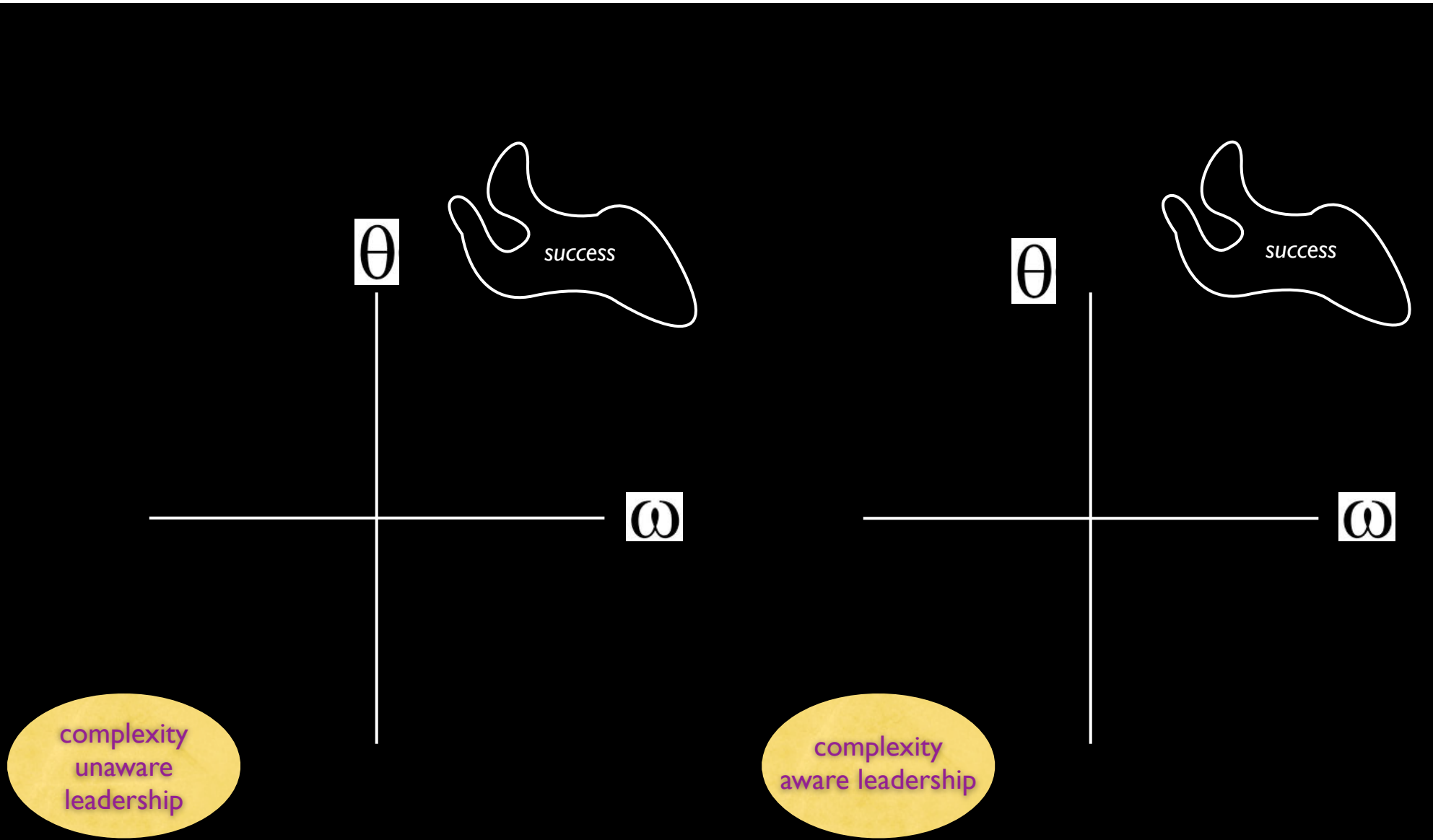
Friday, June 25th, 2010

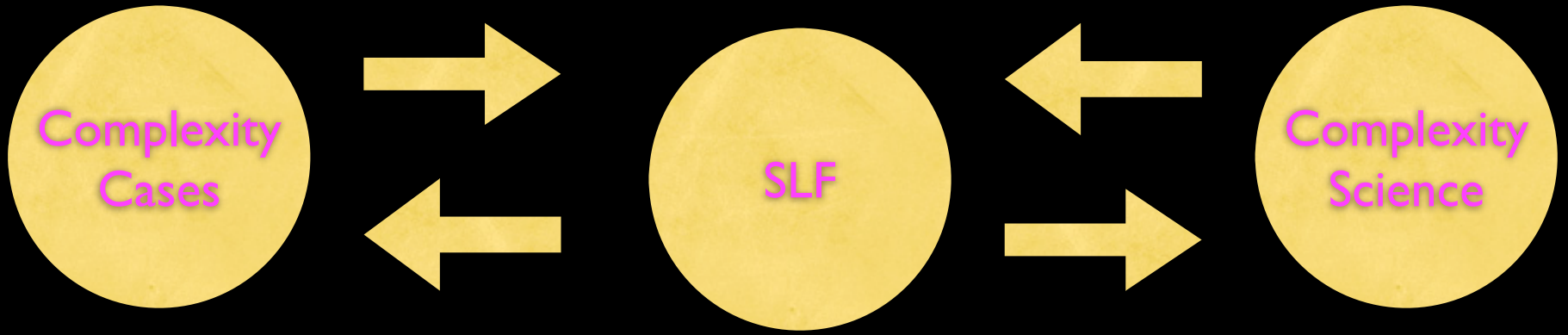
Santa Fe Institute

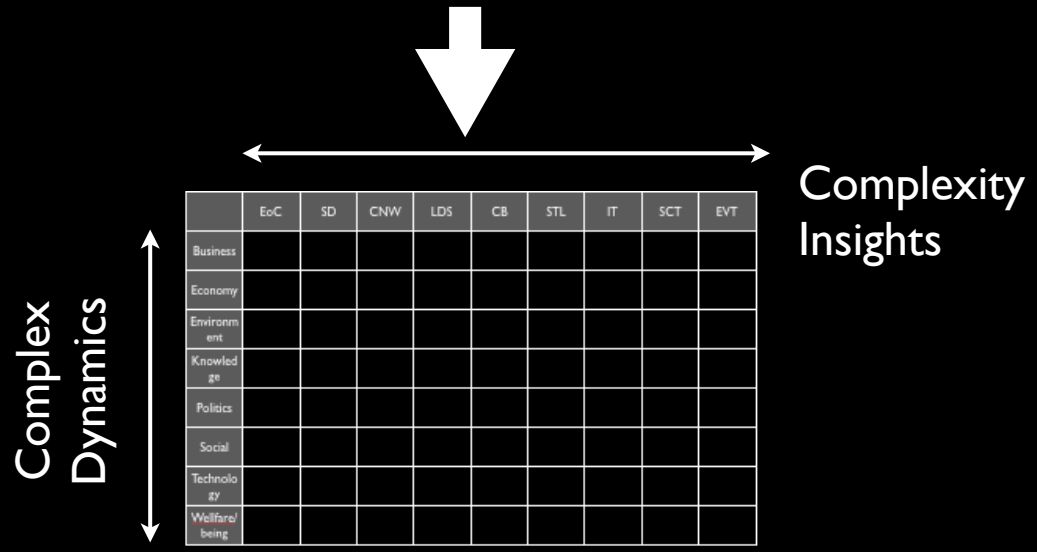

θ
success
ω
complexity unaware leadership
θ
success
ω
complexity aware leadership

Is this true ?

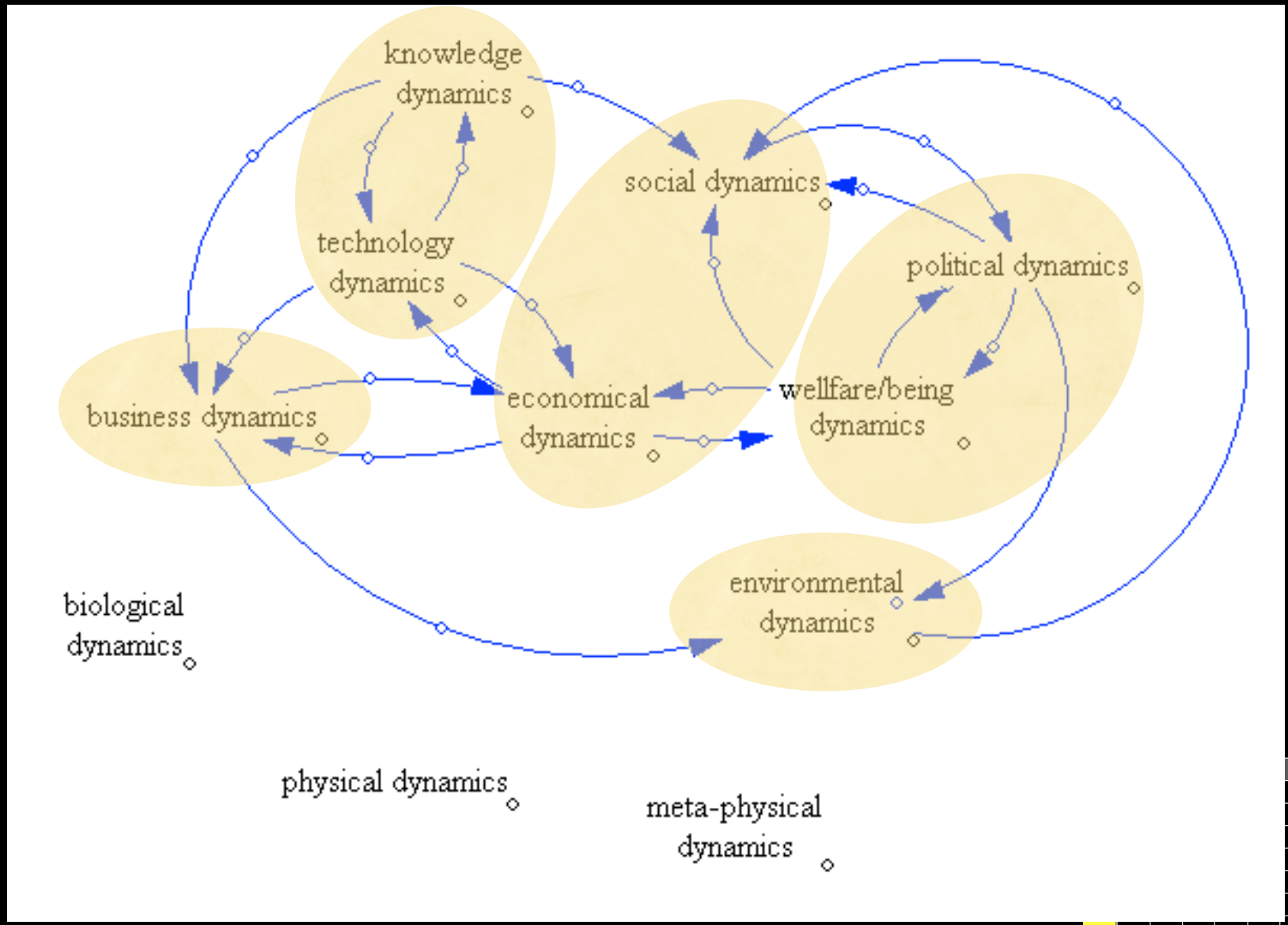
Smart leadership is defined as leadership that understands the **complex dynamics** in its environment, and leverages the appropriate **complexity insights** while dealing with these dynamics.

Smart Leadership Framework
- SLF -

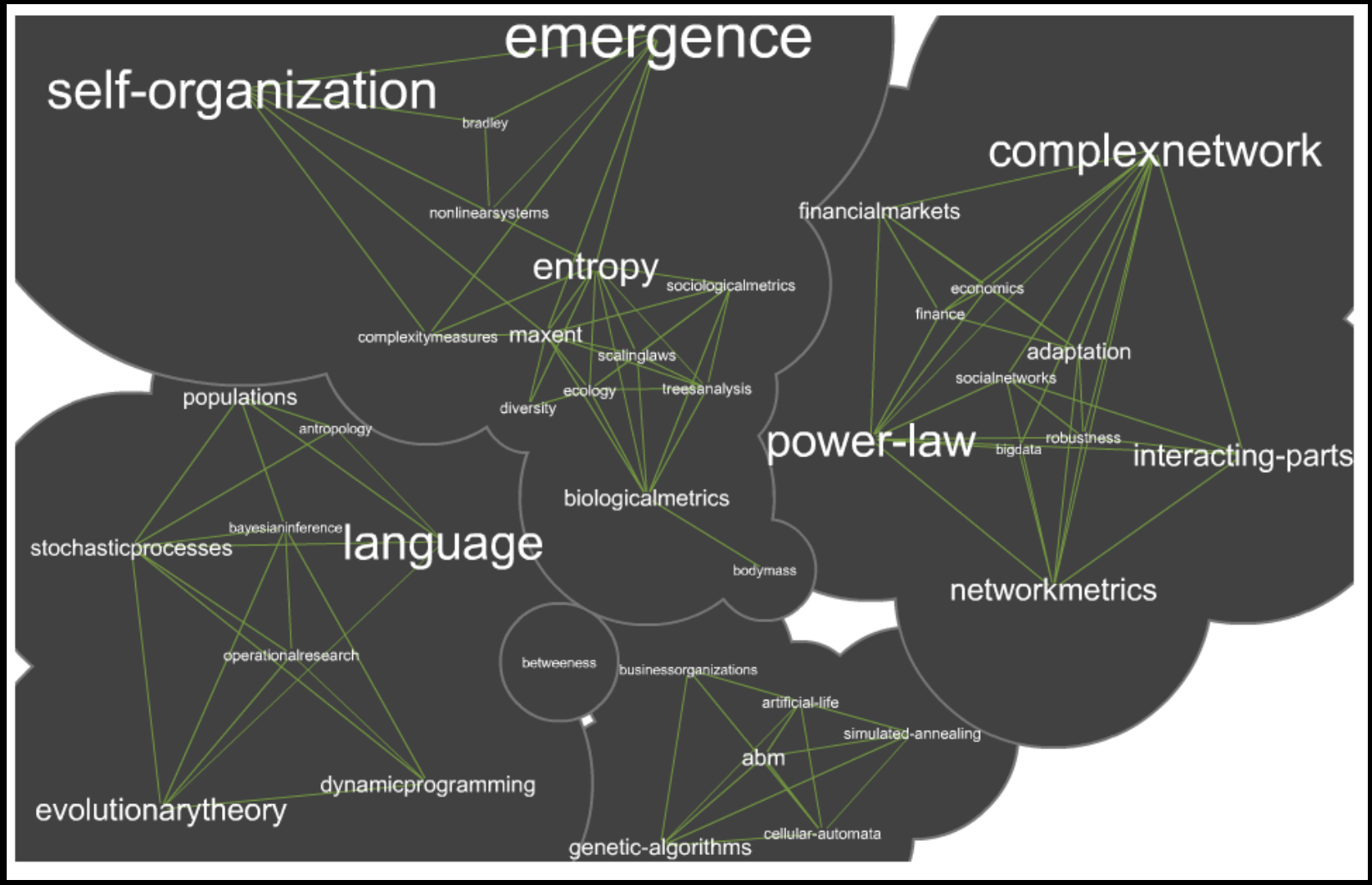




Complex Dynamics



Clustering Complexity Concepts



Complexity Insights

Non Linear Dynamics

Complex Networks

Large Data Sets

Collective Behaviour

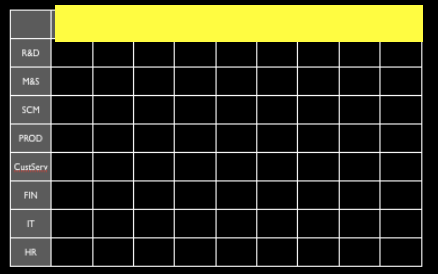
Statistical Learning

Evolution Theory

System Dynamics

Information Theory

Scaling Theory



Complexity Insights

Non Linear Dynamics

concepts

State variable, state space, initial condition, trajectory, fixed point (stable/unstable), attractor, bifurcation, fractal, eigenvalues, manifold, topology, connectedness

techniques

discrete systems analysis, continuous system analysis, ODE, PDE, Lyapunov exponent, poincaré section

tools

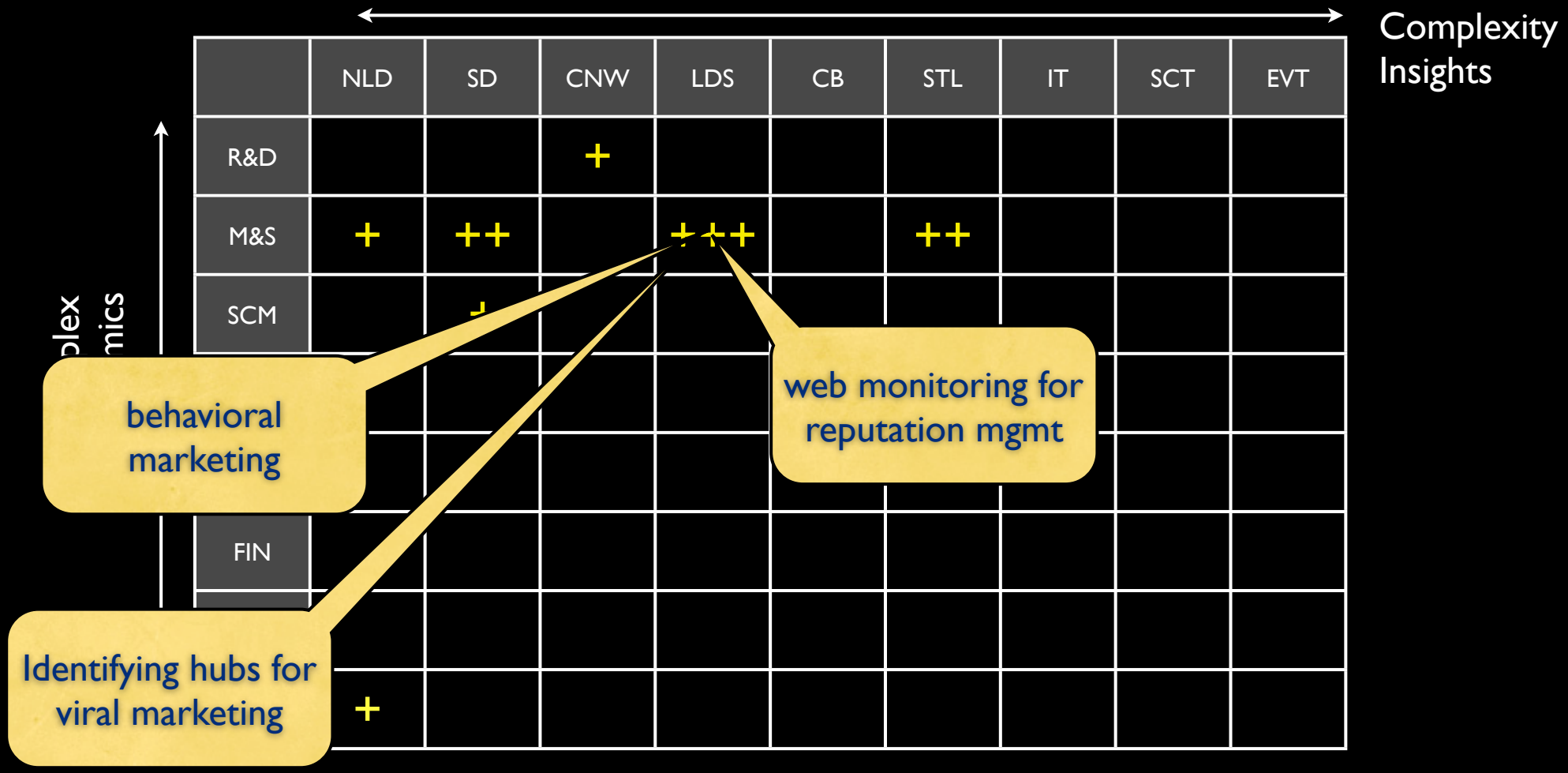
MatLab, VisSim, SimPy, ...

applications

leading on the edge of chaos, defining strategic attractor zones, using attractor force, ...

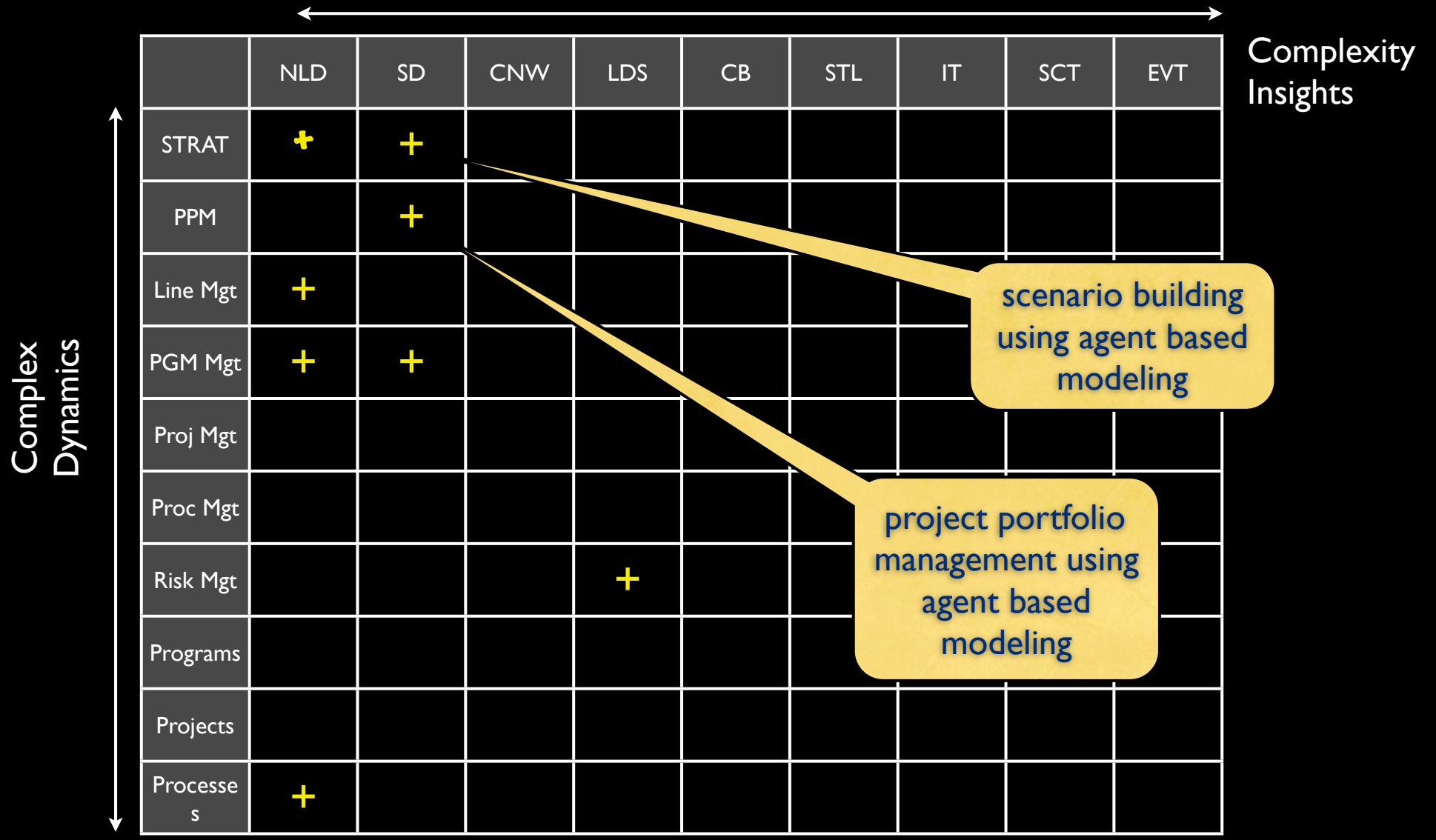
Leveraging Complexity

in business verticals

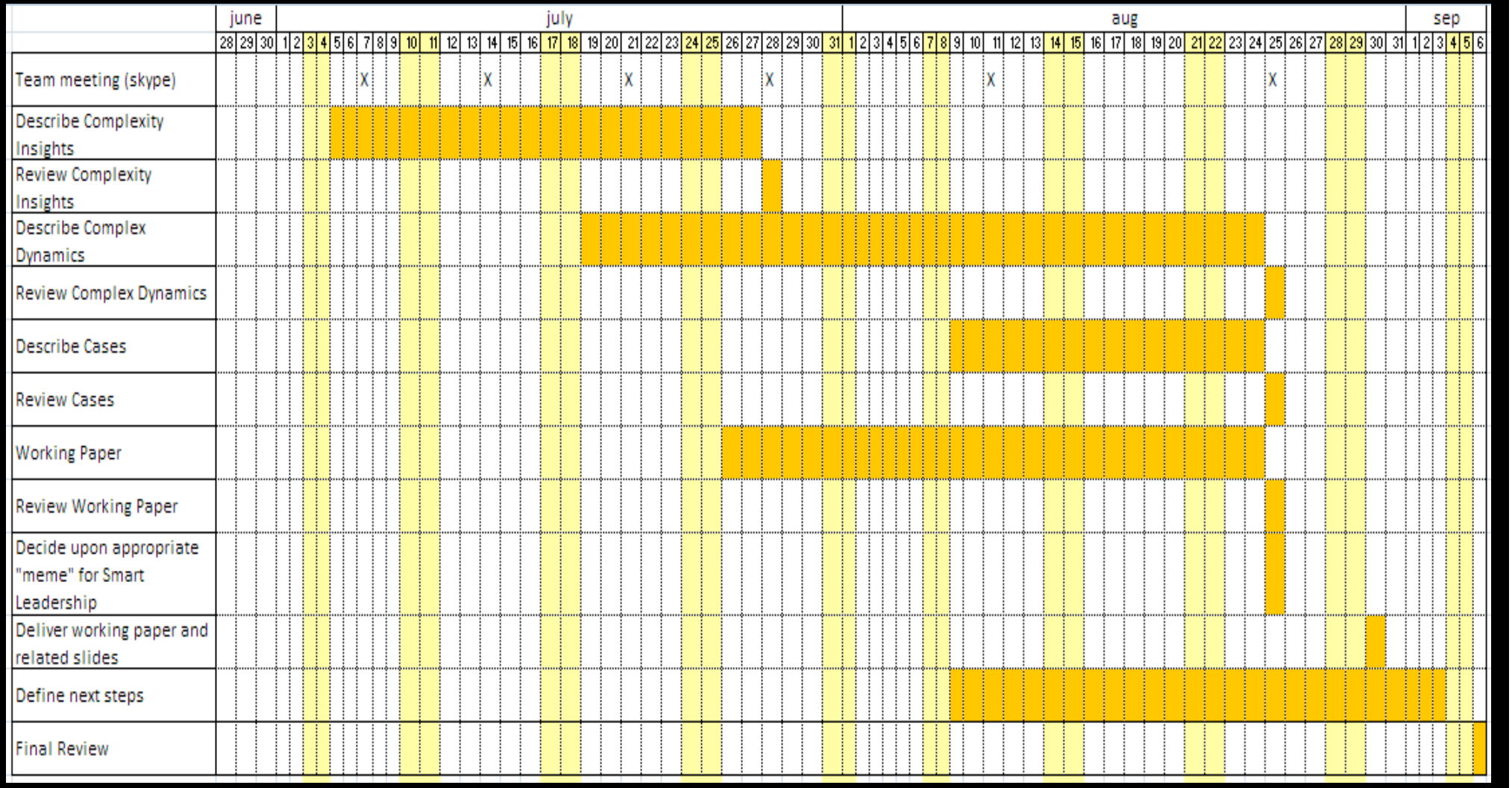


Leveraging Complexity

in business horizontals



Next Steps



team meetings: 3pm brussels/rome/amsterdam, 9pm shanghai, 7am santa fe, 9am washington dc

Wiki Workplace

[edit] Smart Leadership Framework

[edit] next meeting

Wednesday, July 7th, Skype

3pm brussels/rome/amsterdam, 9pm shanghai, 7am santa fe, 9am washington dc

[edit] slide pack

under development

[edit] working paper

under development

[edit] discussion area

[edit] non linera dynamics

under development

[edit] large data sets

under development

Want to Participate and Co-Create ?

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erik.van.den.broecke@imsc.be

Questions ?