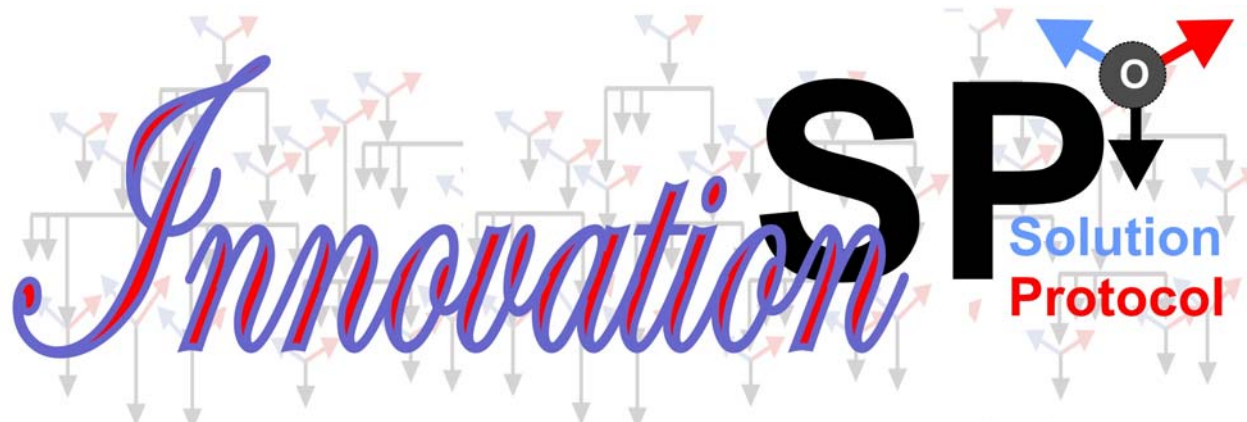




Innovation Appraisal Group * Gideon Samid, PhD



A codified Roadmap for Individuals & Groups

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Innovation Productivity

Innovation is a non-linear process marked by:

- Dry spells
- Chaotic pathway
- Digression
- Misplaced stubbornness
masquerading as commendable persistence.



The Innovation Solution Protocol (Innovation-SP) is a codified roadmap designed to minimize these factors, and promote innovation productivity.

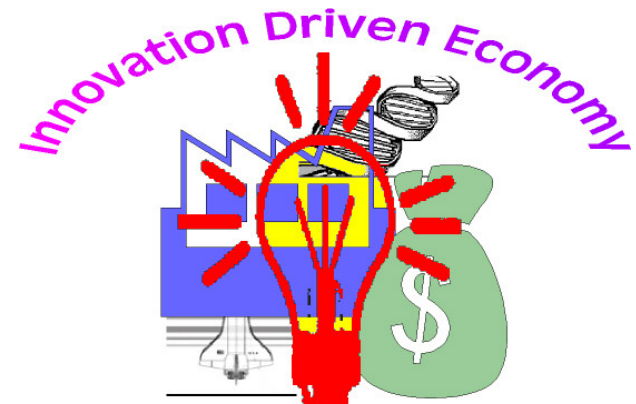
Users



A codified Roadmap for Individuals & Groups



- Individual Researchers and Developers
- Small R&D Teams
- Large, distributed R&D Teams
- Innovation At-Large (public input)



Principles

- The BOXA unit
- The flat BOXA network
- The layered BOXA network
- The joint BOXA network.
- BOXA Resource Allocation

BOXA stands for the **O**riginal Innovation Challenge (IC) which may be **B**roken down to components, redefined with greater **A**bstraction, or **eX**tended to combine with similar challenges.

$$i\hbar \frac{\partial}{\partial t} \Psi(r,t) = -\frac{\hbar^2}{2m} \Delta \Psi(r,t)$$

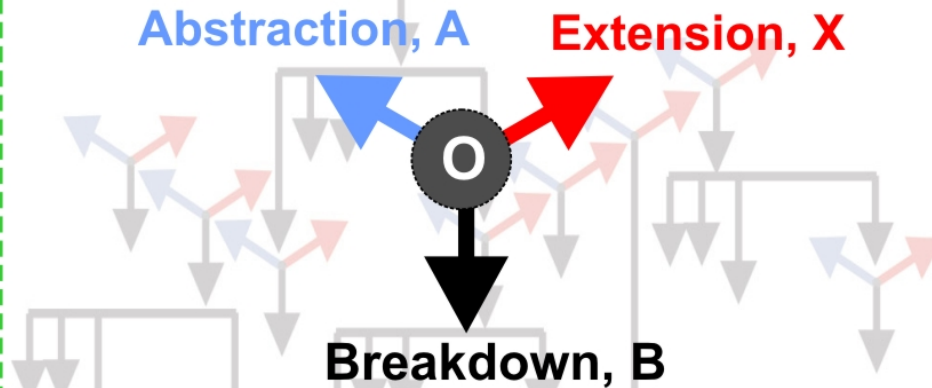
$$H = -K \sum_{i=1}^n p_i \log p_i$$

COOH
O-CO-CH₃

H	He																																
Li	Be	B	C	N	O	F	Ne																										
Na	Mg	Al	Si	P	S	Cl	Ar																										
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr																
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Au	Hg	Tl	Pb	Bi	Po	At	Rn																
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn																
Fr	Ra	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr																	

BOXA

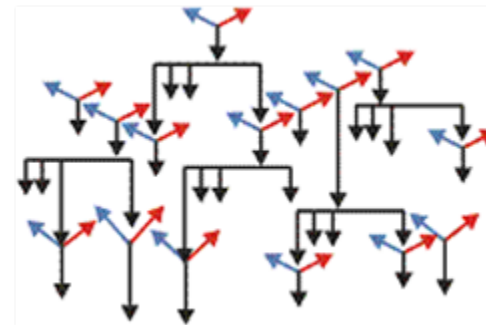
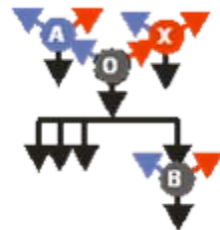
The Intractability Turing Machine



Challenge, O, is handled either by breaking it down to components, or by re-defining it with greater abstraction, or by coupling it with similar challenges, some of them partially solved. This 3-way replacement may be re-applied, giving rise to the Intractability Map.

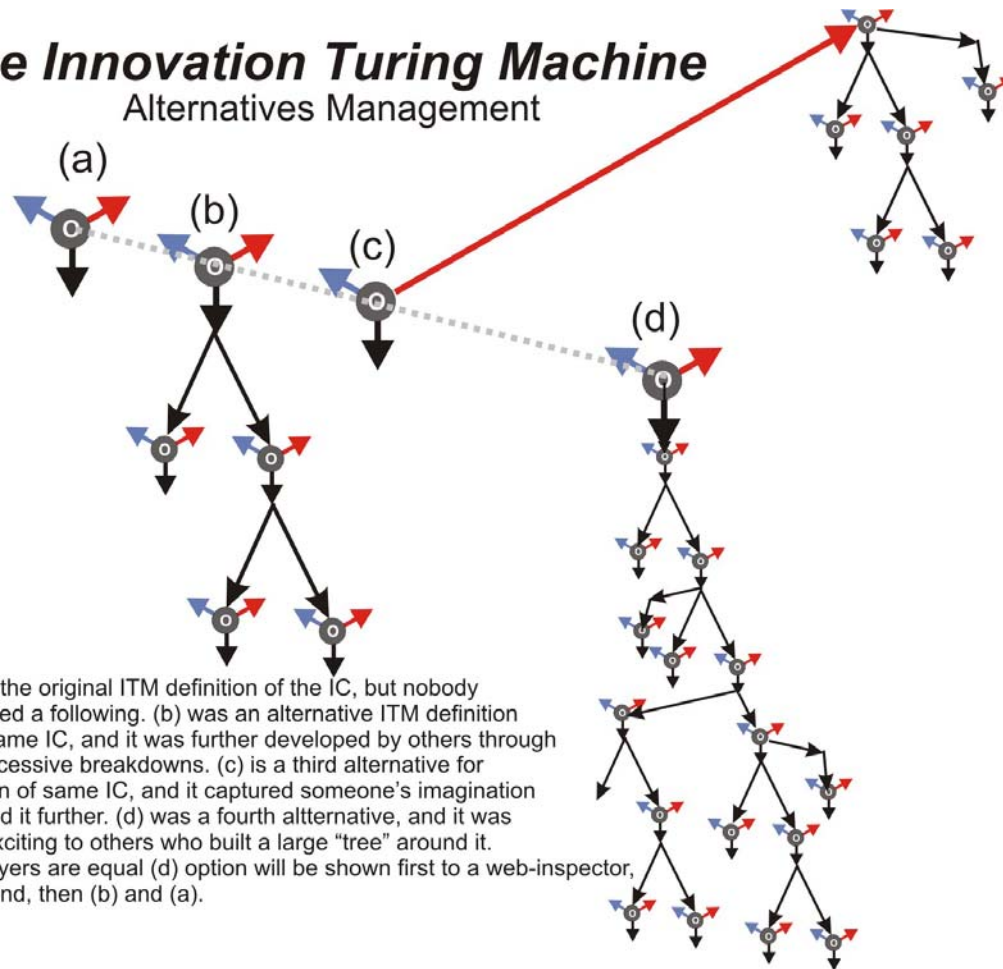
The Flat Network

- Each derived challenge may again be broken down to components, abstracted, or extended, giving rise to the basic (flat) innovation network.

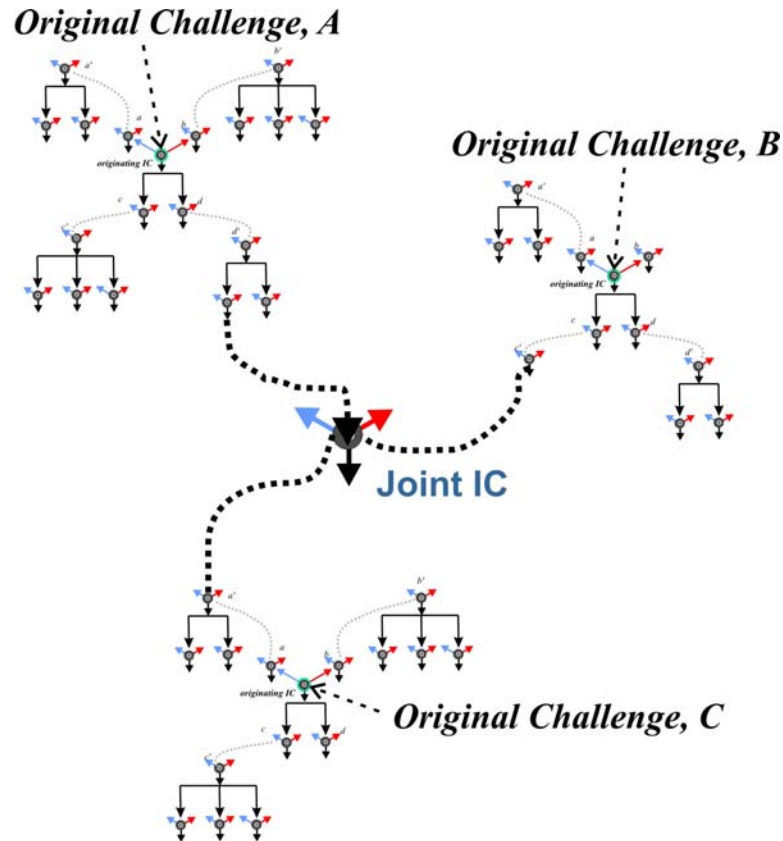


Layered Network

The Innovation Turing Machine Alternatives Management



Joint Network



Several distinct and separate innovation challenges develop into their innovation roadmap, spotting each a derived challenge that is shared by the others. This joint challenge links these individual innovation networks.

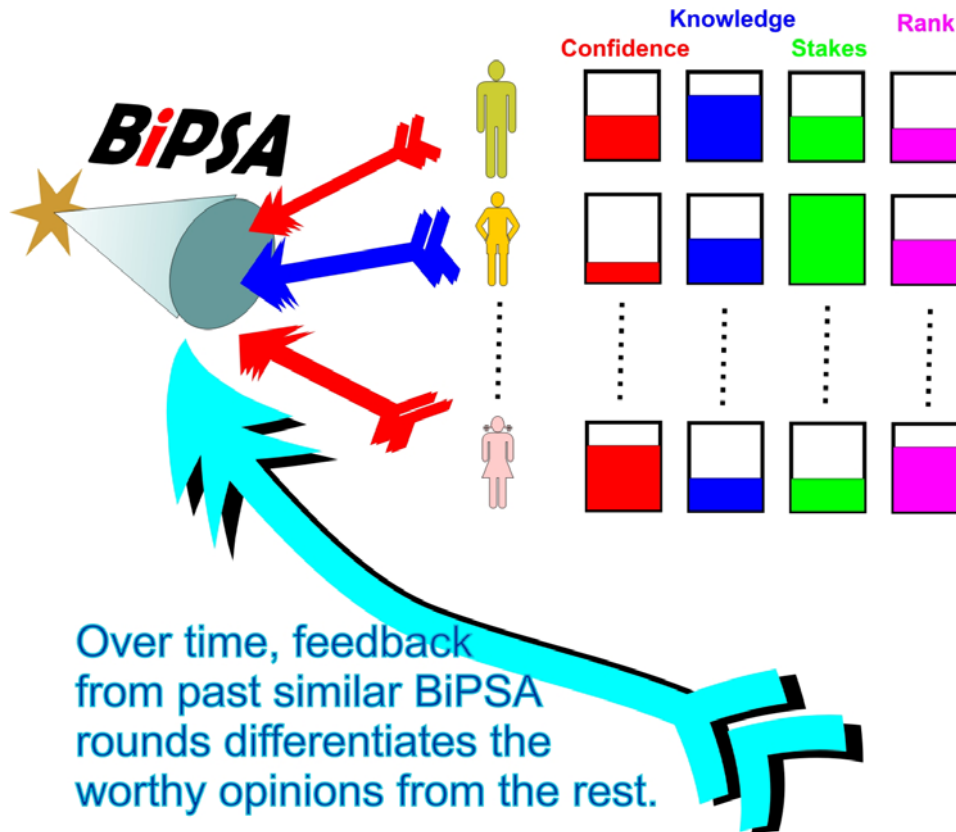
The Turing Mechanism

The ITM challenge-shift mechanism

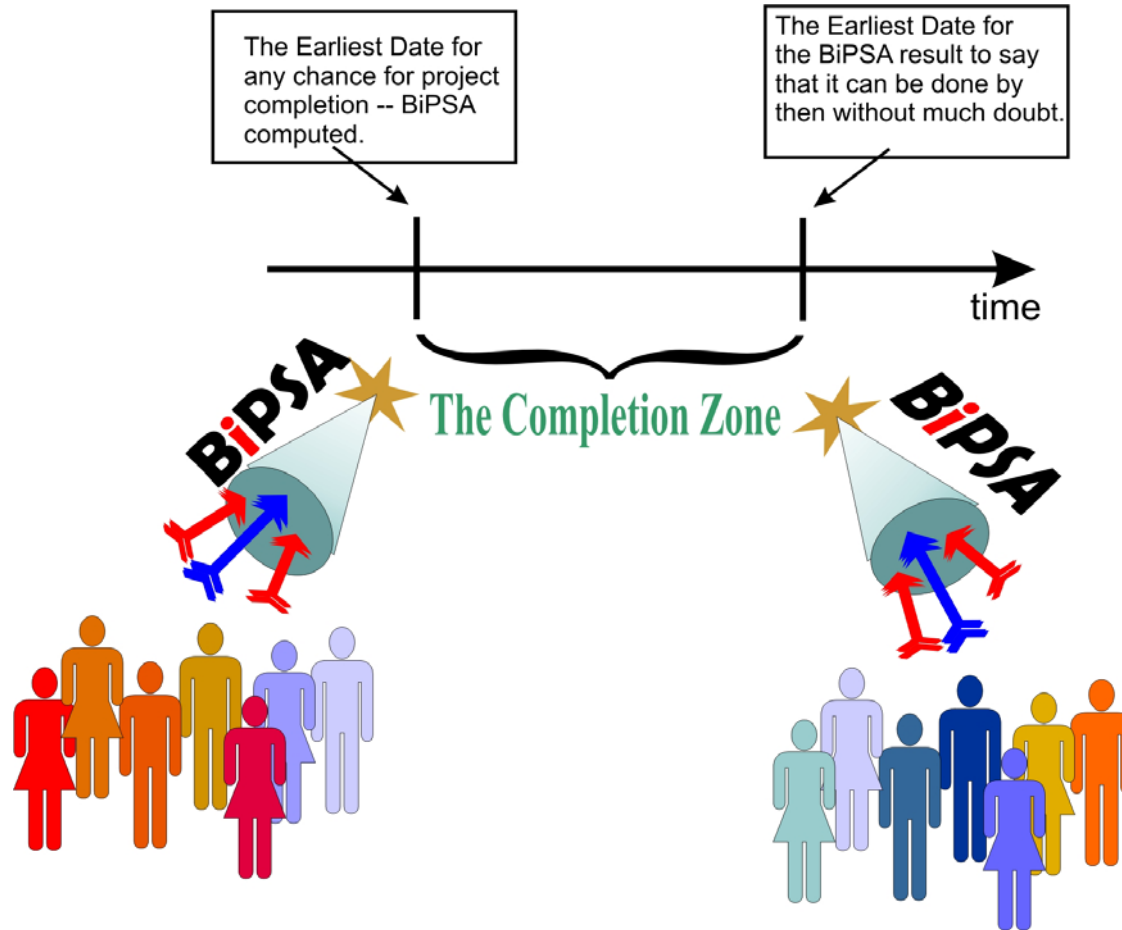


BiPSA

BiPSA integrates individual opinions with due regard to the confidence with which the opinion is voiced, the respondent's level of relevant knowledge, his or her stake at the outcome, and project rank consideration

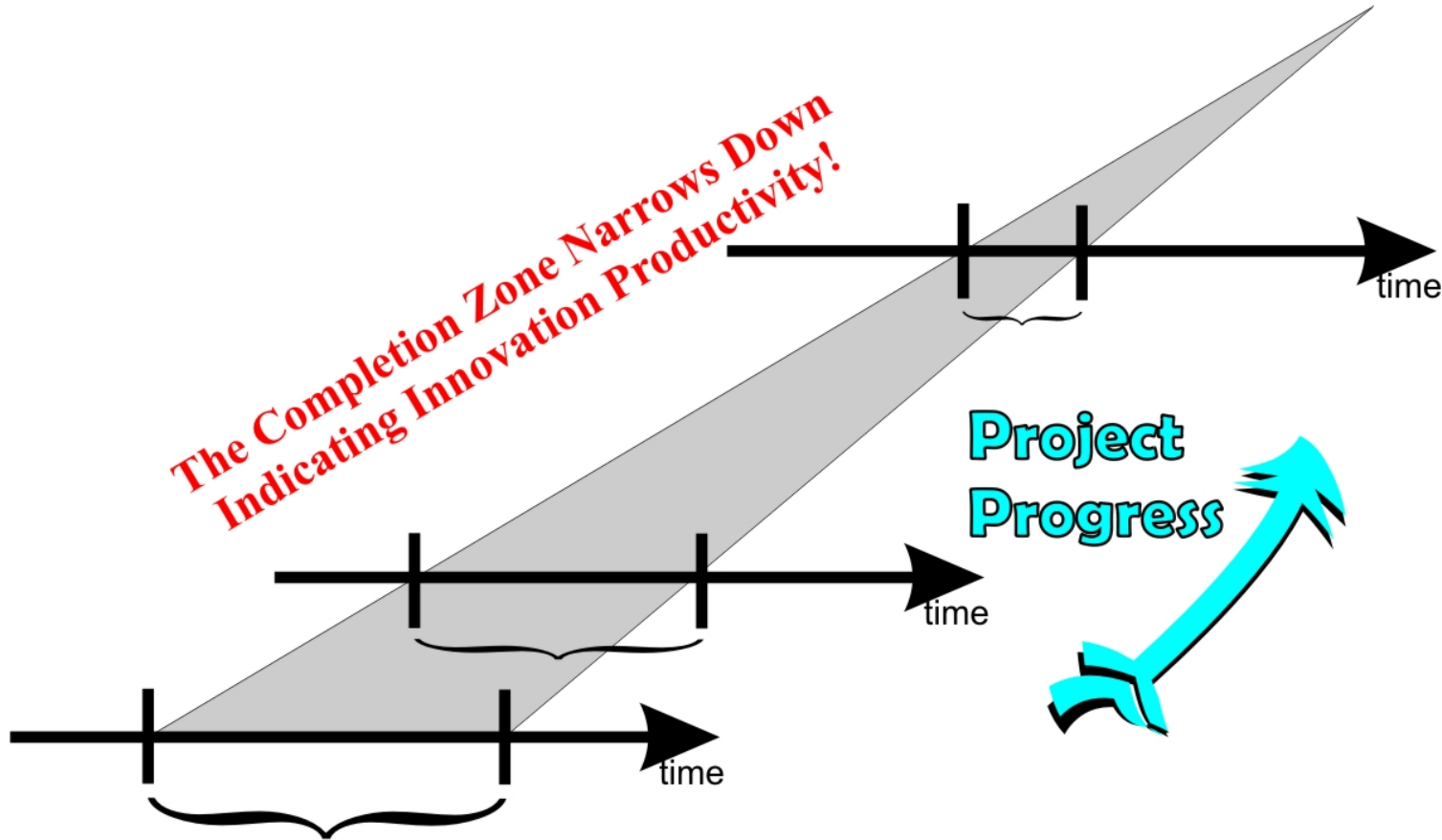


BiPSA Completion Estimate



BiPSA integrates Individual opinions regarding when the project will be done and over with.

Progress Metric



The Completion Zone

Innovation(SP) Summary



- Casting the Innovation process into a codified framework: the innovation map.
- Extending this “flat” map into a layered map, allowing different people to develop their own thinking.
- Joining the layered network through same type challenges that when solved help all dependent challenges.
- Applying BiPSA to estimate and allocate resources, and to measure, and account for progress.



Seminar Offerings



- Engineering is Cost Engineering
- Chemical Engineering for Innovative Chemistry
- Innovation Acceleration Methodologies
- The Universal Theory of Innovation
- Innovation Management
- BiPSA: Management by Inclusion
- Nurturing the Culture of Innovation

Seminars range from a single evening overview, a dedicated Saturday; six, ten, and thirty hours on a weekly or bi-weekly basis, and per-case arrangements.

Seminars are offered (1) online, (2) at Case Western Reserve University, (3) on the road, (4) on customer's location.

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