Water Diplomacy: An Experiment in Interdisciplinary Education

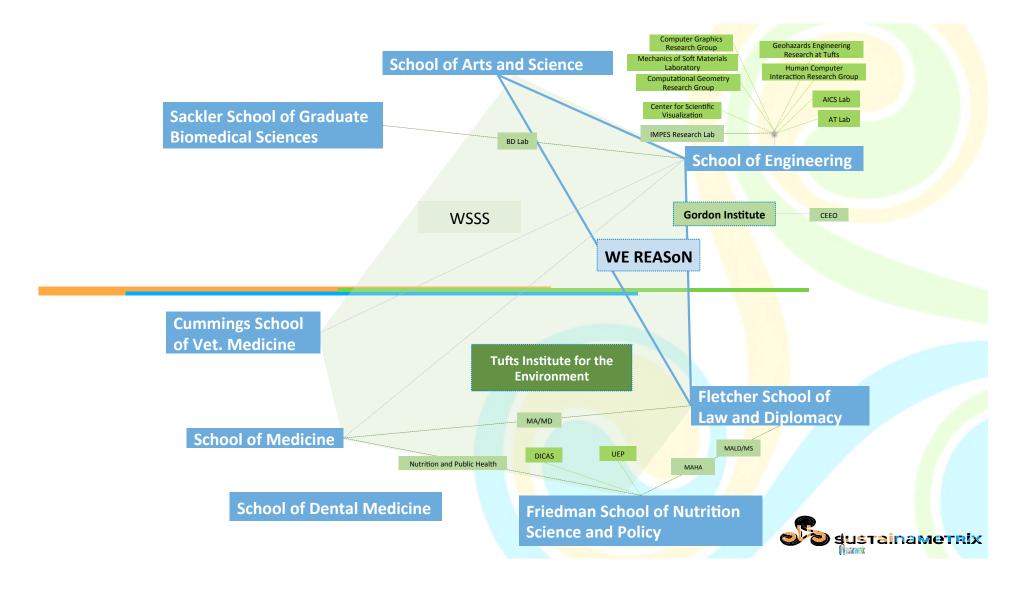
Saturday, May 13, 2017 Tufts University, Water Diplomacy Roundtable Glenn G. Page, Principal/CEO SustainaMetrix

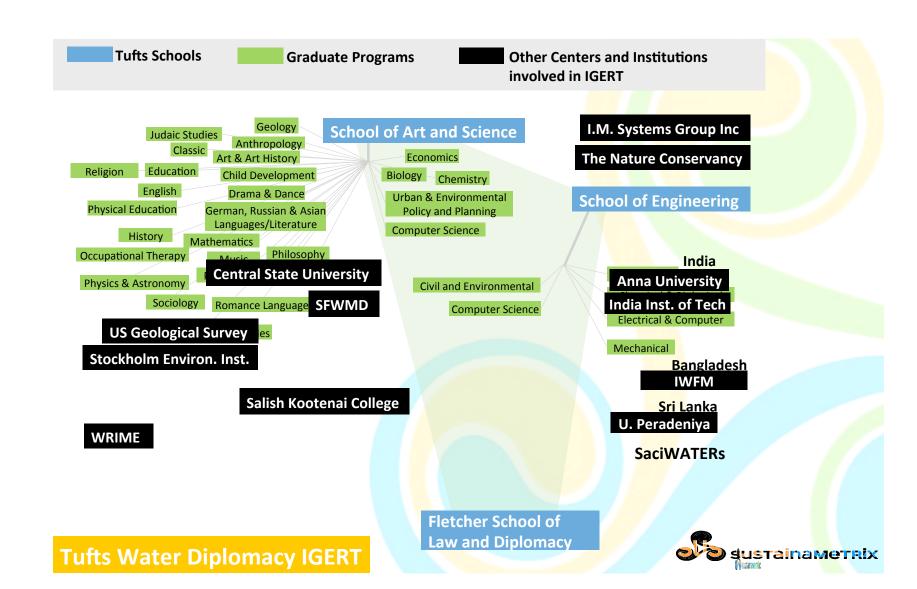


Tufts University Water Diplomacy IGERT Program DRAFT SYSTEM MAP

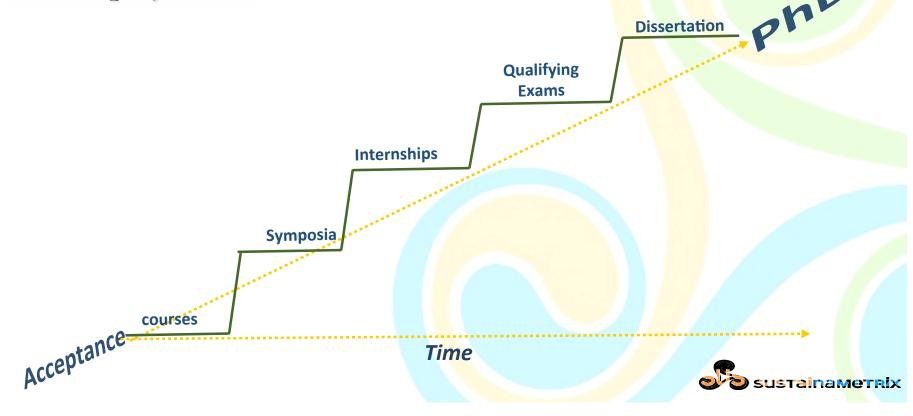


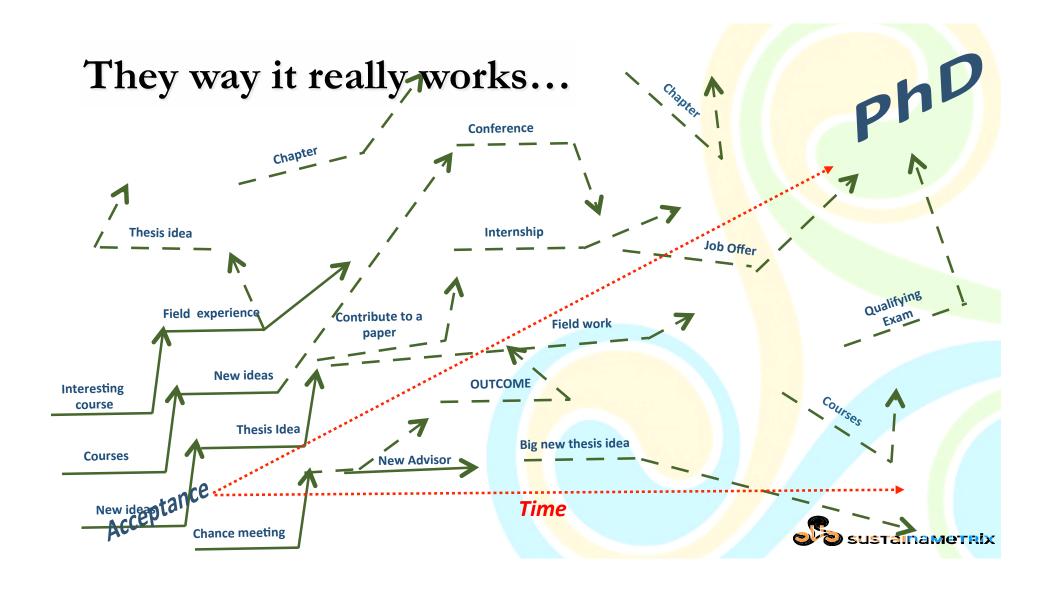






The way we think an interdisciplinary graduate program should play out...





TRIPLE LOOP LEARNING What underpins and guides our **Guiding Question** thinking, learning and adaptation? How do we See our Seeing? How do we establish "Rightness"? **DOUBLE LOOP LEARNING** Are we focused on the right issues that Values, Principles will transform water diplomacy? **Guiding Question** that underpin behavior Are we doing the **right** things? **SINGLE** LOOP LEARNING **CRITICAL VALUES** Did we attract good students **PATTERNS** And are they graduating? **Guiding Question POWER**

Are we doing things right?

Goals

INTRINSIC VALUES

RELEVANCE

EFFECTIVENESS

3 Modes of Integrated Learning

efficiency

Campaign



EXPERTISE LEGITIMACY WORLDVIEWS

What does it all mean and when does it happen?

- Disciplinary
- Multidisciplinary
- Interdisciplinary
- Transdisciplinary/Consilience



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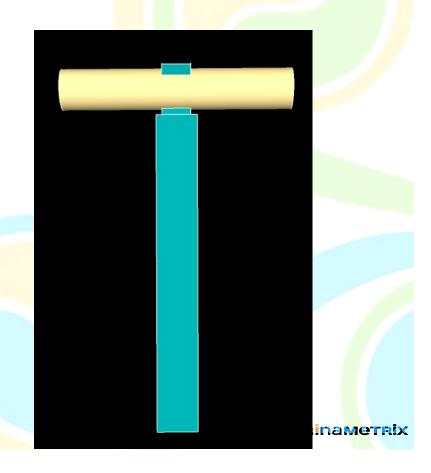
Principled Pragmatists



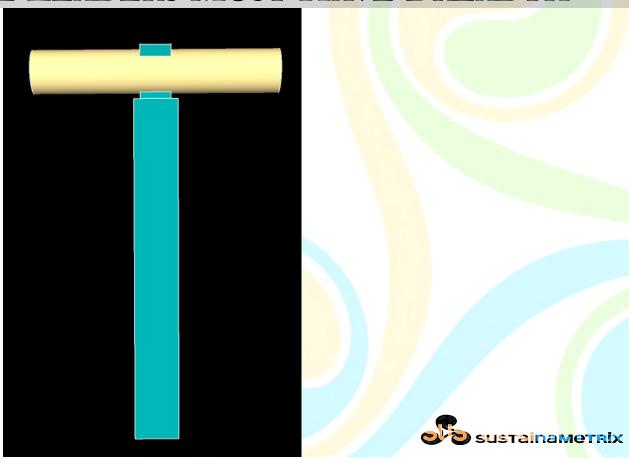
TRANSFORMATIVE SCHOLARS/LEADERS

Leaders of the future will require:

- In-depth knowledge of a at least one academic discipline (the depth)
- Integrating knowledge, skills and values (the breadth) that enable productive engagement with
 - ➤ Complex systems
 - ➤ Wide range of stakeholders
 - ➤ Interdisciplinary teams



TRANSFORMATIVE LEADERS MUST HAVE BREADTH



A water diplomat facilitates the process of resolving water conflicts by finding creative sustainable options that improve mutual gains.



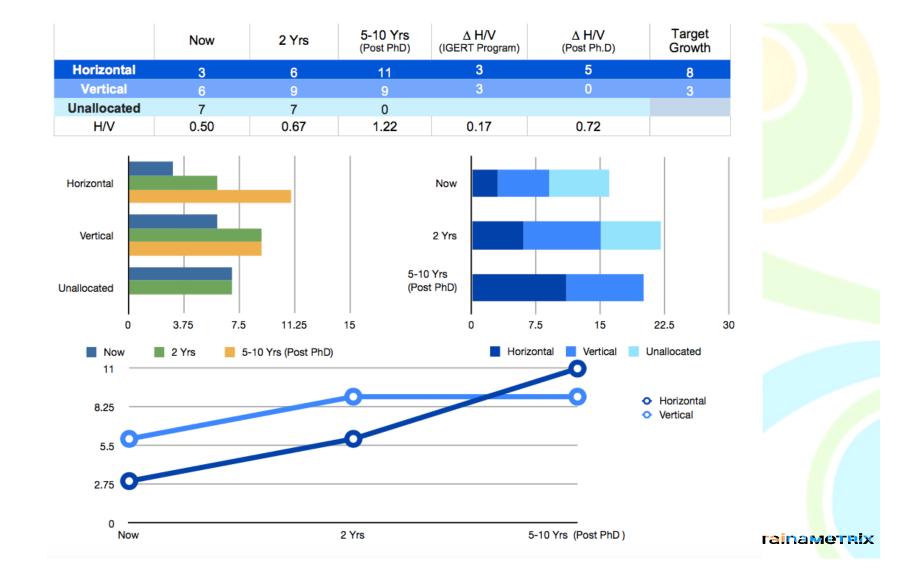
The "T" Exercise

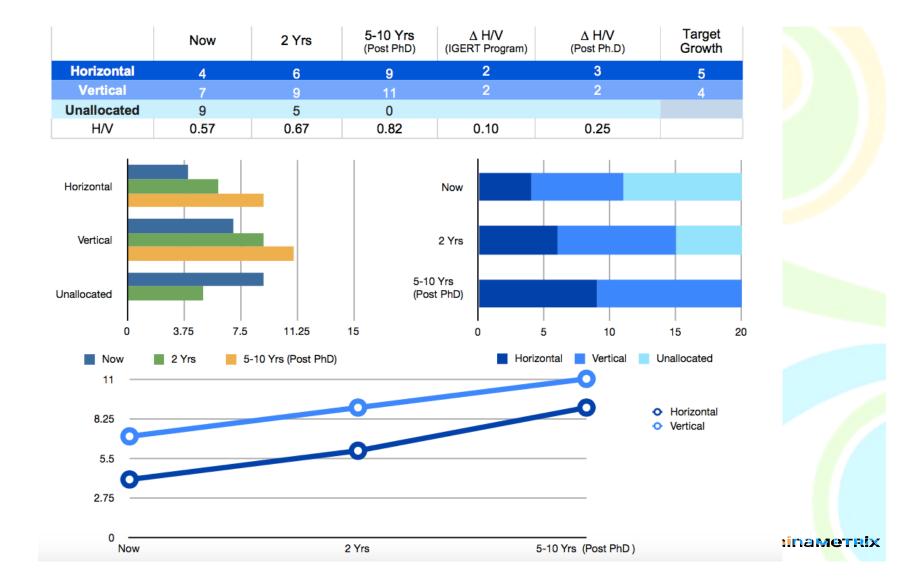
- Divide intellectual focus of your career into 20 "Blocks"
- As you enter the program allocate what you consider to be your current breadth and depth with an assumption there will be blocks left over
- Define how this relationship will develop over the next 2 years as part of the IGERT with an assumption there will be blocks left over
- Define how this relationship will look in 5-10 years post PhD with the assumption that all blocks are used

THE DATA: HOW WE SEE THEIR "T"



	Now	2 Yrs	5-10 Yrs (Post PhD)	Δ H/V (IGERT Program)	Δ H/V (Post Ph.D)	Target Growth
Horizontal	5	6	11	1	5	6
Vertical	7	9	9	2	0	2
Unallocated	7	3	0			
H/V	0.71	0.67	1.22	-0.05	0.51	
Horizontal Vertical		•		Now 2 Yrs		
Unallocated			(Pos	st PhD)		
0	3.75 7.5	11.25	15	0	5 10	15
Now 11 — 8.25 —	2 Yrs 5	-10 Yrs (Post PhD)	<u></u>	Hori	zontal Vertical	UnallocatedHorizontalVertical
2.75						
0 Now			2 Yrs		5-10 Yrs (Post PhD)	





THE IMAGES: HOW THEY SEE THEIR "T"



