WPI Projects With Impact

Achieved through the discipline of value creation

Definitions

- Value creation the process of solving an important unmet stakeholder need better than any alternative
- Innovation value creation with sustainable impact
- Value benefits/costs as perceived by the stakeholders
- Stakeholders end-users, sponsors, and other affected parties
- Key insights the few issues that most define the problem and solution

5-What's for understanding important stakeholder needs

- What is the situation in the ecosystem?
- What is the problem/opportunity resulting from the situation?
- What is the reason the problem/opportunity has not been solved?
- What is your key insight into the actual stakeholder need to be addressed?
- What is your key insight into a compelling solution that addresses the need?

Tools

Project Assessment

Opportunity space & first end-users



Value Factor =	Quality x Convenience			
	Costs			

Example Value Factor Analysis (VFA)

P	Problem Broken ceramic pottery						
N	eed	Transparent, quick drying glue					
0	ur solution	Zip Grip					
		User need	Elmers		Our solution		
Qı	uality Features	Importance	Satisfaction	Total	Satisfaction	Total	
1	Bonding	5	1	5	5	25	
2	Types of ceramics	2	2	4	4	8	
3	Color (transparent)	3	3	9	4	12	
	Total			18		45	
		User need	Elmers		Our solution		
Co	nvenience Features	Importance	Satisfaction	Total	Satisfaction	Total	
1	Quick drying	5	2	10	5	25	
2	Applicator	3	4	12	3	9	
3	Clean up	4	4	16	2	8	
	Total			38		42	
		User need	Elmers		Our solution		
Co	st Components	Importance	Expense	Total	Expense	Total	
1	Per application	2	\$	2	\$\$\$\$	8	
2	Storage lifetime	3	\$\$	6	\$\$\$\$\$	15	
3	Removing extra glue	5	\$\$	10	\$\$\$\$	20	
	Total			18		43	
				38		44	



WPI Value-Creation Initiative

Innovation and Entrepreneurship Worcester Polytechnic Institute Worcester, Massachusetts



Innovation for Impact: i4i

Action Plans (NABC)

Hook

- What is the purpose and focus of your initiative?
- Briefly, what is the situation in the ecosystem that gets attention?

Need

- What is the important unmet stakeholder problem/opportunity?
- What do they wish they could do but can't today their actual need?
- Remember to quantify no bigger, better, faster, cheaper

Approach

- How do you plan on addressing the stakeholder's actual need?
- · What do you have or can do that is special and sustainable?
- What are your risks or limitations and how will you mitigate them?
- How do you plan on providing your solution to the stakeholders?
- Do you have a development plan with milestones?

Benefits/costs (value)

- How will the different stakeholders gain from your solution?
- Remember to quantify

Competition, current solutions, and alternatives

- Can you name them, now and in the future?
- Have you conducted a Value Factor Analysis?

Action

- What are the next key steps to move your project forward?
- What is required to take these next steps?

Value-Creation Forums – Feedback & Iteration

Format

- Presenter gives a 3 to 5-minute NABC Action Plan presentation to multidisciplinary peers
- Peers give 1-2-minute feedback and iterations
- Presenter listens to feedback without responding

Feedback

- · Always respectful and helpful the goal is improvement
- Multiple perspectives what was good, improvements, and eyes of the end-user, sponsor, and other stakeholders
- Presenter uses the feedback to improve their NABC Action Plan

Intense iteration with teammates, sponsors, end-users, & others