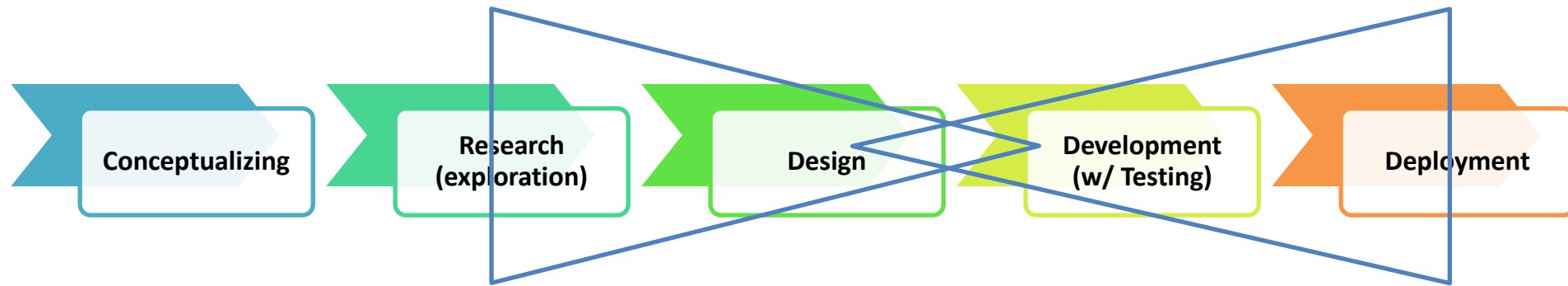


# Goal

- To open up the communication channel between Virtual Lab based Development & Research
- To represent dual perspectives
- To highlight the potential challenges and prepare the audience for a healthy ongoing dialogue
- To make each other's work mutually visible

# Virtual Labs – R&D



- Research differs from development
  - It comes early in the cycle (fuzzy-ness)
  - Is exploratory
  - Bad design is just as informative

# Researcher Vs. Developer

## Researcher

1. Hypothesis exists... surfacing insight to help what needs to be developed
2. Probing, searching, looking to uncover something. Initial point is fuzzy, outcome is clear insight
3. Experiment focused. Value in trying different approaches. Value in collecting data.

## Developer

1. Concept clarity is there. Manifesting what is known.
2. Output, deliverable focused. Goal is tangible and clear
3. Usage, working model focused. One model is sufficient. Efficiency is valued

# Our challenge

- How to seamlessly merge and align the two aspects of VLs
- Typical industry soln to this would be
  - Form a steering team
  - , project team
  - Have a roadmap
  - Agree on joint deliverables

# Potential Research focus

- **Theme 1: Social Semantic Web**
  - Semantic Web technologies around VL
  - VL is not an island but a interoperable social web
- **Theme 2: Gamification / Serious Games**
  - Constructivistic learning theory
  - Social proliferation

# Potential implication on VL

- Joint roadmap with dependent milestones
- Concept driven implementation
- Diffusion of directions & exhaustion of time
  - Experimental pilots; multiple pilots; trial and error;
  - Data collection & report writing

# Theme 1: Social Semantic Web

## Potential areas

- Social web
  - Profiles, communication, folksonomy
  - **Research angle:** does it add value to learner, does it help the community grow, what helps/ prevents good learning
  - **Development angle:** Semantic technologies; FOAF;
- Interoperability
  - Youtube, blogs, wikis, other info sites...
  - **Research Angle:** Ontologies;
  - **Development angle:** Single sign-on; data portability

# Open items

- Research & Development will always be orthogonal – who arbitrates between the two? Is there a steering team?
- Resources for Development are high. How to deliver on research? Will it be paid staff of VL or research students from IIIT-Hyd? Is it realistic this semester?
- How to ensure that PhD requirements are being met in this project?