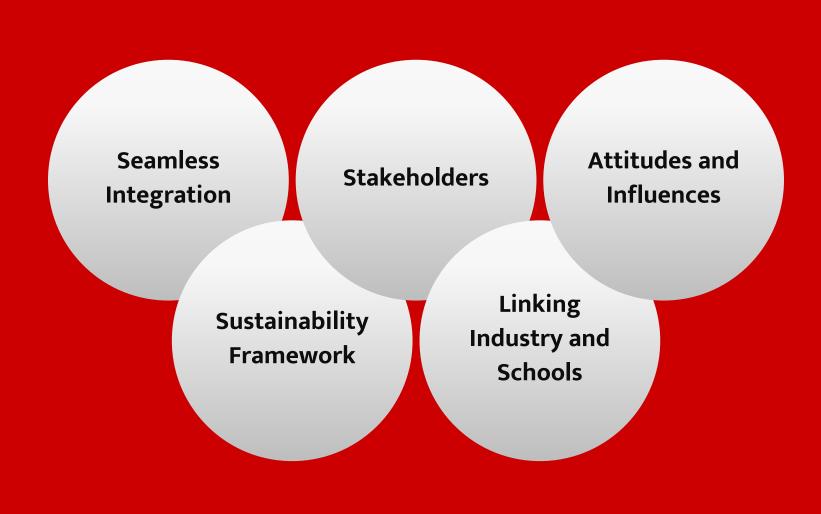
Sustainability and Design Education

Cumulus Mumbai 2015



Policy decisions until now have been driven primarily by technology and commerce.

Designers should be included as major drivers in bringing a human-centered approach.



Seamless Integration in education



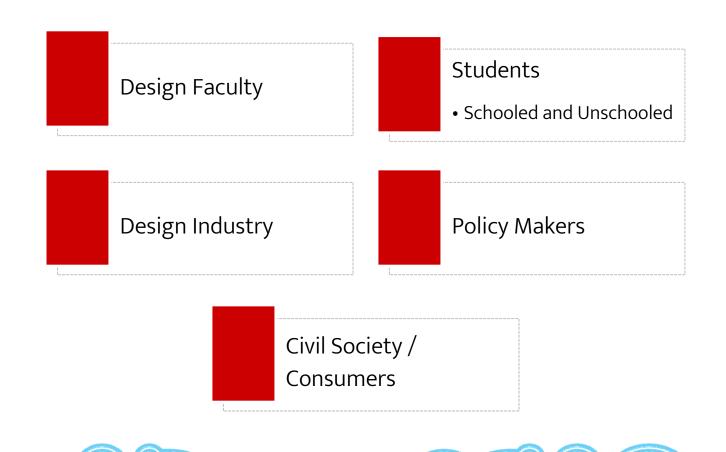
Seamless Integration

- **Sustainability** should be implicit and incubated in the system starting with bringing explicit 'focus' on sustainability.
- **Early exposure** of sustainability and various professions.
- Sustainability should be attractive, aesthetic and affordable
- **Emotionally sustainable** and glamourous at the same time.

Stakeholders



Stakeholders



Attitude and Influences



Attitudes and Influences

A. Design Faculty

- Teachers as role models should practice sustainable design.
- They should have a common agenda and must be trained in sustainability.
- All design disciplines should teach sustainability. Currently, it's perceived to be limited to industrial design and materials.
- Sustainable design is equivalent to ethical design.
- Teach to focus on outcome and not only output.

Attitudes and Influences

B. Students

- Images of the developed world influences the ambitions and goals of youth of developing countries. Hence, affecting their choices and decision making.
- Not get overwhelmed rather build on self-image and confidence.
- Learn to face barriers, failures and learn from mistakes.
- Should be sensitized towards difficulties.
- Best is the enemy of good.

Sustainability Framework and Toolkit



Sustainability framework and toolkit

- Context defines framework and frameworks should be contextualized.
- Informed choice of design problems
 - Focus on problem definition and problem identification.
 - Training to engage with wicked problems.
 - Breaking down bigger problems into do-able actions.
 - Redesign assignments.
- Teaching analysis and inter-connectedness.

Sustainability framework and toolkit

- Train schools to be driven by sustainability principles.
- Case-study documentation.
- Skill Development: Skilling, Re-Skilling and De-Skilling.
- Designers should be trained and encouraged to write, critique and analyse.
- Inviting sustainability experts and professionals to schools and offer internships.
- Entrepreneurship courses.

Linking Design Industry and Design Schools



Bridging the gap: Design Industry and Design Schools

- There is a disconnection between design industry and design training.
- Trained designers are few in number but are **generalists**. This should be used as an advantage to bridge the gap between industry requirements and training.
- Dedicated sustainability incubation centers, research areas and mentorship.
- Progressing towards sustainable business models especially for small and medium scale industries.

Keywords:

Inclusiveness, Early exposure, Experiential Learning, Economic development, Schooled and Unschooled, Skilling, Aesthetic and Emotional sustainability



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