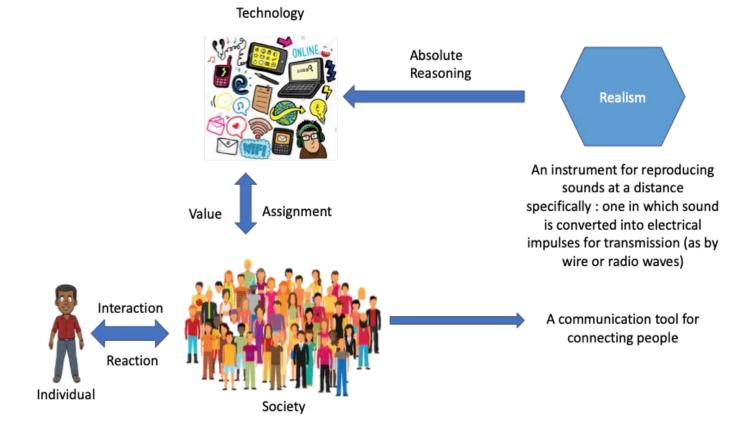
Social Construction of Technology

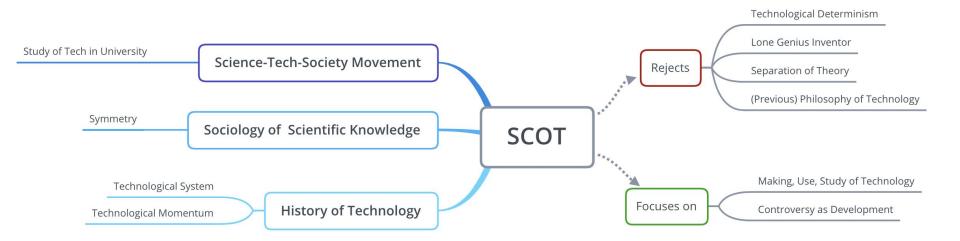
Team Purple

Introduction to SCOT



Sociology Rediscovers Technology

Work of Wiebe Bijker and Trevor Pinch



Social Constructivism

The social construction of social reality



Near Nonsense



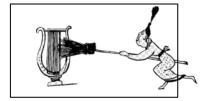
Possible



False



Solid Fact



Possibly True

The construction of things and phenomena

Natural?



Versus



"most of the phenomena of modern physics are manufactured" (Hacking 1983).

Social Constructivism

The scientific and technological construction of material and social environments

Technology affects environment /world





Research in Science affects environment /world -policies

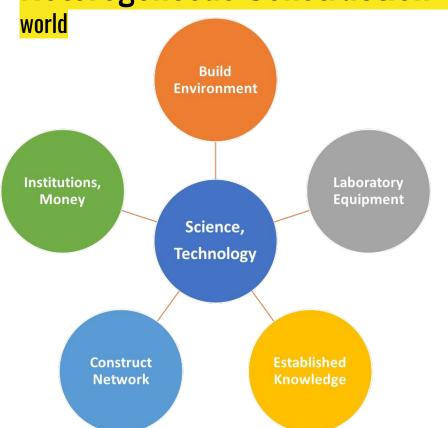
The construction of theories

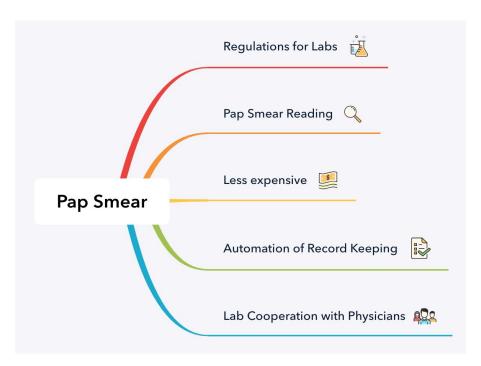
Heisenberg's Uncertainty

Theory if absolute, then becomes stagnant and truth. It rather is a constructional tool for building further theories and concepts.

Wall vs stairs.

Heterogeneous Construction - Simultaneous shaping of social and material





The Construction of Kinds

Nominalist

- Kinds are human impositions
- Socially constructed by people
- Only individual objects are real

Realist

- Kinds are real features of the world
- Kinds are external to people

The Construction of Nature

Immanuel Kant



Natures of things are not available without representations

Neo-Kantian Constructivism

Large amount of contingency in our knowledge

Neo-Kantianism

Issues

- Could violate some fundamental assumptions about cause and effect
- Political concerns
 - Feminists
 - Environmentalists

Advantages

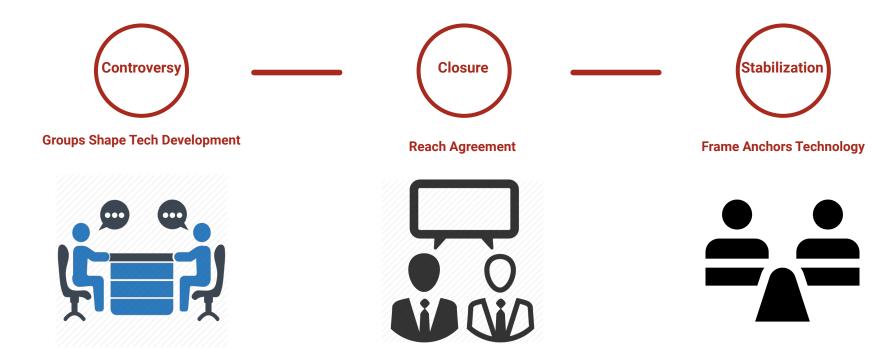
- Researchers could question about the causes of contingency
- Co-production of science and politics may produce successful science in the public

Richness in Diversity

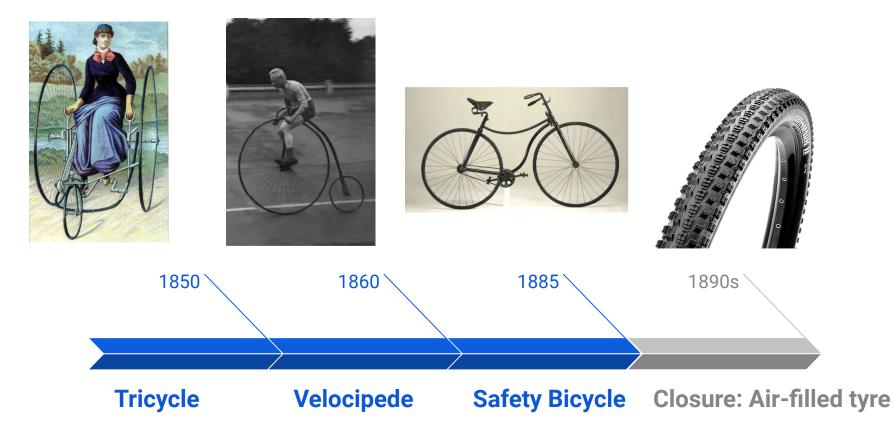
- Genders
- Emotions
- Political Movements
- Identities

Contested Technology

"Technology has no essence, only the meanings that groups give to it."



An example: history of bicycle



Societal Expectations

- Constant Need for Innovation
 - Performance /Accuracy
 - Security and Privacy
 - Affordability
 - Health Safety
- Ease of Use
- Universal availability
 - o Portable

What other expectations do you think society has for new technology?

Criticisms

Questions the data and historical accuracy

Questions whether closure and stabilization exist

Questions how to recognize relevant social groups

Questions about the limitation of social structures and actors considered

What do you think of this theory?