Design Schools & the educational turn

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Forthcoming

Design Against Crime
Caroline L. Davey and Andrew B. Wootton

Design for Personalisation
Edited by Iryna Kuksa and Tom Fisher,

Design for Healthcare
Rachel Cooper and Emmanuel Tsekleves

Books from 2000’s design school traditions

Thinking about:
Design for Development
Design for Education
Design for ..........
Design for Policy charts, for the first time, the emergence of collaborative design approaches to innovation in public policy.
Why is this change important?
The Changing Urban World

This graphic depicts countries and territories with urban populations exceeding 100,000. Circles are scaled in proportion to urban population size.
9.3m additional urban in UK residents by 2062

Estimates of demand require 245,000 new homes per year

By 2050 eight million aged over 80 most will live in cities
In the next 15 to 20 years alone we will need:

- Water: +30%
- Energy: +45%
- Food: +50%
Cardiovascular diseases, cancer, chronic respiratory conditions, diabetes, depression,

CAUSE
Lifestyle Issues

Low Activity levels
Poor Nutrition
Obesity,
Alcohol & Tobacco use
Design Paradigm shift?

education, research and practice
Design Decisions
Who makes them?
Who influences them?
• Decision-approvers: People who authorise decisions and assign funding
• Decision-takers: People who use their position to ensure that high-quality proposals are submitted to Decision-approvers
• Decision-shapers: People who develop the proposals and whose work is approved, rejected or deferred
• Decision-influencers: People who are internal and external to the project who may have some influence, formally or informally,

Design tools
Urban design process

Decision-making stages

1. Need/opportunity identification
2. Exploration
3. Design and development
4. Detailed design
5. Detailed design implementation

Sustainability tasks

- Create sustainability agenda
- Agree on sustainability agenda
- Develop sustainability advice and make trade-offs
- Assess and agree revised sustainability agenda
- Provide sustainability performance advice
- Agree on sustainability performance
- Develop strategy for sustainability monitoring
- Assess and agree on strategy for sustainability monitoring

Sustainability reviews
Design Evidence
Global Agenda Council for Wellbeing: Non Communicable Diseases

Health and Wellbeing

Lifestyle
- Alcohol
- Nutrition
- Activity
- Tobacco

- Heart disease
- Diabetes
- Cancer
- Lung disease
- Depression

Design knowledge and practice

INDIRECT
- Digital applications
- Public services, Transport
- Branding, Advertising
- Cities Workspaces Homes

DIRECT
- Medical equipment
- Care pathways
- Public health info
- Hospital design
Mental Capital and Wellbeing:

Making the most of ourselves in the 21st century
FACTOR: Quality of the fabric of the physical environment

CONSTRUCT: Design, construction and maintenance of buildings, the spaces between buildings and associated infrastructure

FACTOR: Quality of the ambient environment

CONSTRUCT: Lighting, noise/acoustics, thermal quality, access to nature

FACTOR: Psychological impacts of physical and ambient environment

CONSTRUCT: Density Accessibility Safety and fear Wayfinding

Design factors in the built environment that affect our health & wellbeing
DENSITY: A number of *units* in a given *area*.

- **Natural form**
  - Forests (1)*
  - Lakes (1)*
  - Cropland
  - Flora (5)
  - Fauna (1)
  - Fauna dwellings (1)
  - Etc.
  - *combined
  - Refs 17, 33, 34, 51, 53, 59, 71

- **Built form**
  - Dwellings (30)
  - Non-dwellings (10)
  - Infrastructure (5)
  - Other structures (2)
  - Etc.
  - Refs 1, 2, 4, 6, 7, 10, 11, 14, 15, 21, 22, 23, 24, 25, 27, 29, 34, 36, 38, 39, 40, 41, 42, 46, 47, 48, 54, 55, 56, 59, 62, 64, 66, 67, 68, 69

- **Mobile material form**
  - Trains
  - Airplanes
  - Vehicles (1)
  - Buses
  - Bicycles
  - By foot (1)
  - Etc.
  - Refs 44, 45

- **Static form**
  - Products
  - Food
  - Equipment
  - Digital tech
  - Waste (1)
  - Advertising (1)
  - Transit stops (2)
  - Etc.
  - Refs 11, 42, 49, 54

- **People**
  - Individual & social
  - Organisational

- **Space**
  - Square mile
  - Kilometre
  - Acre
  - Hectare
  - Etc.

- **Scale**
  - Building
  - Development
  - Neighbourhood
  - ‘Block’
  - City
  - Etc.

- *Combined
  - Refs 3, 5, 8, 10, 20, 42, 54, 65
Engagement
(Co-Design)
Thought experiments

SHARING GOVERNANCE
- Space @ Highbury
- Refuge community wildlife harvest. Trust asset.

Lancaster Arts Partners Art City Project

SHARING RESOURCES
- Ping! Brum

Incredible Edible Lancaster
Community food growing project/farm.

Claver Hill
Community food growing project/farm.

SHARING FOOD
- Giving allotment produce to local Junk food project

Research on Lancaster food groups

Green Lancaster
Sharing food and space

Building community

Active Parks

SHARING SPACE
- "Living Village"
  - Concept: small private gardens
  - Large shared space
  - 3.5 acres

Friend of the Storey Garden

SHARING IDEAS
- Sharing ideas (education and academia)

SHARING MOBILITY
- Moseley and Kings Heath Shed (M&KHS)

Sharing the time

Taking plastic rubbish to the tip for neighbours who live in flats.

SHARING SKILLS
- Online system that allows older adult to teach English to non-native speakers
  - To create shared experiences by developing an

SHARING KNOWLEDGE
- Library
  - venue share
  - information support
  - local community groups
  - resources (books, computers, DVD...)
  - volunteers and friends sharing time

SHARING THINGS
- Sharing 16 chickens shared by 10 households. Each household has chicken duty once a week or forthonight, and keeps eggs on the day.

SHARING RESOURCES
- Hard sharing shares with buddies in Brum

Thought experiments

Thought experiments

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Thought experiments
Design Fiction
Inspired by a gadget from the 1982 sci-fi fantasy film 'Blade Runner'

Researchers made a copy of the polygraph-like Voight-Kampff machine

Measures skin and heart rate responses and has a pupil-dilation measure

Not in use yet but created to raise questions about future of technology

No more second guessing! Concept 'emotion detector' could reveal if a person REALLY finds you attractive on a first date
Are there alternative ways to solve the critical challenges that face us at all scales?

What is the role of the designer?
Myopic Design vs Holistic Design

- Lack of imagination, foresight, or intellectual insight

Characterised by comprehension of the parts of something as intimately interconnected and explicable only by reference to the whole
Craftsperson
Creative problem-solver
Reflective thinker
Internationalist
Empathiser
Social initiator
Active learner
Networker
Communicator
Manager and marketeer
Business Strategist
Ecologist
The new designer
Active Citizen
Knowledge Worker
Sustainable Entrepreneur
The Intelligent Maker
The Design Experience, Ashgate Publishing
How does design step up its game?
What role does it have?
World Design Organisation
So what is the educational turn? What does the design school look like? More importantly what does it produce?
Thank you.