Built form for automated mobility

Chalmers Transport - Initiative seminar 2016
Architecture and Urban Design –
new knowledge challenges
Architecture and Urban Design –
humans way of overcoming space and time
Architecture and Urban Design
structures and gives form to other urban systems
Architecture and Urban Design –
structures and gives form to society through urban form
Architecture and Urban Design –
the knowledge challenge is the relation urban form – urban life
What do we design?
neither subject nor object, but affordances (J.J. Gibson 1977)
The design of affordances
both physical and cognitive affordances

Say three things but do one and the same
The design of affordances
from physical space to ecological space

Descartes: physical space

Gibson: ecological space
Human perception and cognition – an ecological approach to visual perception (J.J. Gibson 1979)

a new ontology: media, substances and surfaces
Human perception and cognition – an ecological approach to visual perception

ambient optic array: movement and invariants
Human perception and cognition –
an ecological approach to visual perception

Perception is continuous in time and space, not a series of snapshots
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how to geometrically represent affordances

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a Copernican shift in network representation

Axial map in regular spatial analysis

a. The Street Network as an Axial Map
b. The Primal Syntax between Streets/Lines
c. The Dual Syntax between Junctions/Points
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the urban landscape of affordances
Architecture and Urban Design

designing the urban landscape of affordances
Architecture and Urban Design
designing the urban landscape of affordances

Today
Proposal A
Proposal B
Architecture and Urban Design
the design of affordances
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