



Context Sensitive Design (CSD) : Curricula/Courses/Research

Conceptual Frameworks: Teaching and Research on CSD:

What is Context?

Context is a human construction that incorporates scientific, social scientific, artistic, and humanistic data in both separate and aggregated/integrated formats.

Context is that combination of physical elements, ecological systems and cultural and social practices that define specificity of place, i.e., that in aggregate, establish a commonly understandable realm and in particular, its critical constituent elements.

Context includes more than the parameters of the environment currently encompassed by legislation.

What are challenges to Context inherent in transportation projects?

Disruption of continuity and integrity of physical fabric

Disruption of community

Disruption of sustainability of cultural and social practices

Disruption of sustainability of natural systems

Enhanced mobility at the cost of multimodality, access to destinations

Diminished aesthetics, value



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What is Context Sensitive Design? How can it be evaluated?

In transportation projects, can **context** be pre-assessed as a part of determination of project scope is? What histories, cultural narratives, technologies and scientific knowledge are needed and how can they be brought into play in the formal resolution of a project scope?

How is adverse impact measured and assigned dollar value as an estimate before the fact? Are, for example, cost-savings measured by the difference between costs incurred by anticipating adverse impacts to **context** versus costs of mitigation after the fact? Is mitigation inherently less cost effective than design because of inflexibilities or incompleteness induced by the lack of a flexible and comprehensive approach?

What constitutes adverse impact on context? Project scoping should involve processes to build consensus about: (1) the impacts on **context** to be considered, (2) the basis for analyzing them, (3) the information that will be used, and (4) the stakeholders that care.



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Teaching:

Practice is **Multi-disciplinary**:

Professional Curricula are **Disciplinary** > financial models of University in conflict with educational models

Dual degrees

Certificates

Research: Transcending Boundaries

Multidisciplinary Teams and the Direction of the Research

Multiple Vocabularies, conceptual bases

Multiple non-parametric variables and/vs. the connectedness (composition) of design

Science, Engineering – quantitative measures
vs.
Perceptual, Political – qualitative measures
