Sustaining Places & The Scales of Planning

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2065?

10.4 billion global population @ 67% urban =

7.0 billion global urban population

or

3.7 billion more people in cities =

433 New York Cities (9/yr.)

or

3,610 San Jose Cities (77/yr.)

Source: AECOM
Climate
Demographics
Design
Policies
Technology
Equity
Economics

Resources
Climate Change Response – Defining Challenge of the 21st Century

- On-Road Transportation: 39%
- Electricity: 22%
- Natural Gas: 8%
- Solid Waste: 5%
- Other Fuels: 5%
- Industrial: 4%
- Heavy Duty Trucks and Vehicles: 4%
- Aviation: 4%
- Other - Thermal Cogeneration: 2%
- Off-Road: 3%
- Wastewater: 0.45%
- Rail: 0.31%
- Agriculture: 0.22%
- Marine Vessels (ocean-going vessels and harbor craft): 0.14%
- Motorcycles: 0.08%

Livable built environment
Harmony with nature
Resilient economy
Interwoven equity
Healthy communities
Responsible regionalism
Authentic participation
Accountable implementation
Traditional Community Planning
Assumptions

Past foretells future
- economic & population growth projections

Adjust plans every 20 years
- land use, transportation, & public facilities

All else remains relatively stable
- Climate conditions
- Water resources
- Energy supply
- Agriculture
- Ecosystems
- Human health
- Natural hazards
New Realities

**Future is evolving & uncertain**

growth/decline must be monitored

**Plans respond to change strategically**

**Sources of instability include linkages among:**

- Climate condition
- Water resources
- Energy supply
- Agriculture
- Ecosystems
- Economy
- Human health
- Natural hazards
Vertical Integration of Plans
Example: San Diego
A City Set in a Bio-Diverse Region
Housing Growth in the San Diego Region
GHG Inventory Project Results

Hypothetical GHG Emissions Reduction Targets
San Diego County

- 2006 Levels
- 2020 BAU Projections
- AB 32 Target
- Executive Order S-3-05 Target (2050)
Regional Comprehensive Plan for the San Diego Region

Final
July 2004
2050 Regional Transportation Plan / Sustainable Communities Strategy

Smart Growth Areas

- Existing/Planned Potential
  - Metropolitan Center
  - Urban Center
  - Town Center
  - Community Center
  - Rural Village
  - Special Use Center
  - Mixed Use Transit Corridor

- Habitat Planning Preserve Areas
- Existing Major Employment Areas
- Urban Area Transit Strategy Boundary

Smart Growth Concept Map
January 27, 2012

2010 RTP Transit Network
- Light Rail Transit (LRT)
- Express (X)
- Bus Rapid Transit (BRT)
- Rapid (R)
- Rapid (R)
- Shuttle/Minivan
- High-Frequency Local Bus

Conserved or Proposed Habitat Lands
Existing Major Employment Area
Urban Area Transit Strategy Boundary

SANDAG
2050 Regional Transportation Plan
A City of Villages
1. An **open space network** formed by parks, canyons, river valleys, habitats, beaches, and oceans;

2. **Diverse** residential communities formed by the open space network;

3. Compact and walkable mixed-use **villages of different scales** within communities;

4. **Employment centers** for a strong economy;

5. An **integrated regional transportation network** of transit, roadways, and freeways that efficiently link communities and villages to each other and to employment centers;

6. High quality, affordable, and **well-maintained public facilities** to serve the City’s population, workers, and visitors;

7. Historic districts and sites that respect our **heritage**;

8. **Balanced communities** that offer opportunities for all San Diegans and share citywide responsibilities;

9. A clean and **sustainable environment**; and

10. High **aesthetic standards**.
San Diego’s Community Plans
A City of Villages

Bio-diversity

Open space + parks

Economic Base

Villages

Transit + Mobility

Community

Conceptual Urban Form Framework
“The practice of planning is going to have to change. How?”
Plan for market choices

Mobility
Housing
Job Places
Community
Plan for health

The Planning and Community Health Research Center advances plans and policies for improving the built environment to promote public health.

Planning and Community Health Research Center
Plan for access
Plan for resilience

Global Climate Change Impacts in the United States

How has climate already changed?
How is it likely to change in the future?
How is climate change affecting us now where we live and work?
How is it likely to affect us in the future?
Plan to make housing affordable

- Density bonus and incentives
- Parking reductions
- Reduced permitting transaction costs
- Lower decision-making process level approvals
- Increased housing capacity & supply
- Inclusionary housing
- Housing Commission programs
- **Reduced impact fees through efficient infrastructure design and land use coordination**
Plan for co-benefits

Source: AECOM
"The infusion of place-making into infrastructure is a gigantic ball of transformation that's rolling, at different speeds in different places."
SSIM™ Applications: Urban Design Performance Analysis

GIS Analysis

Accessibility to Park & Open Space  Accessibility to Retail  Accessibility to School  Accessibility to Public Transit  Accessibility to Cultural Facilities  Pedestrian Connectivity
**Smart City Concepts**

**Smart = Data Intelligence + Better Decisions**

Smart Cities are a growing trend around the world

- **Facilitate Smart Choices**
- **Facilitate Smart Decisions**

**Smart Users**

**Smart Governance & Planning**

**Responsive, Livable, Healthy, Satisfying and Sustainable Environments for Home, Work, Commerce, Recreation and Learning**

**Smart Appliances**

**Smart Home / Smart Office**

**Smart Building**

**Smart Neighborhood**

**Smart Community**

**Smart City**
Thank you

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