Affordable Communities: Emerging Housing Trends to Increase Social Sustainability



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HLP Themes





Triple Bottom Line

Template from Insightformation Inc.

www.humanlifeproject.com



Strategy Map Template from Insightformation Inc.



Strategy Map Template from Insightformation Inc.

Motivation for Housing Improvements





Conclusion:

Families are being pushed further and further from jobs

Motivation for Housing Improvements

- DRCOG's Boomer Bond, Realtors, Home Buyers, AARP Articles, HLP Research, …
 - Need for more cost effective housing
 - Need for cost effective family housing near jobs
 - Need for Visitable/Universal Design/ADA smaller housing for seniors
 - Benefits in Multigenerational Housing
 - Some suburbanites dislike "high density" (i.e. multi-story, multi-family housing common in TOD)
 - Need for housing that enhances community/social sustainability

Multi-Generational Planning Motivation from American Planning Association

Multigenerational Planning: Using smart growth and universal design to link the needs of children and the aging population

- "By 2040, the proportion of people over the age of 65 will top 20 percent, and people under the age of 18 will make up almost 23 percent of the population. As result, the oldest and youngest populations combined will make up almost half of all U.S. residents."
- "Older citizens, families with young children, and the young adult population **share many common needs, interests, and concerns**...safe, walkable neighborhoods, a complete range of services nearby, an opportunity for civic engagement, affordable and mixed use housing, and adequate transportation options."
- "Research by AARP has shown that most aging Americans do not want to live in communities separate from younger people."

Housing Trends

Prevalent Housing Trends for Cities







Why design separate housing if the youngest and oldest residents share many of the same needs?

Aging in Community Multigenerational Housing

Design for the Youngest to Oldest Resident

Downtown

Jobs Public Transportation Shopping Services Family Households w/ Children and Older Adults 1 to 2 Adult Households

Housing Types



Multigenerational Houses

Accessory Dwelling Units (ADUs)

Group Homes

Pocket Neighborhoods

Cohousing

Multigenerational Houses

- Definition
 - One house with multiple related generations
- Advantages
 - Aging family member can be close
 - Recent college grad can have low cost housing
 - Allowed in all cities
 - Easy to get bank financing
- Disadvantages
 - No privacy

Accessory Dwelling Units (ADU)

- Definition
 - Single family house with a detached second smaller house on a single lot
- Advantages
 - Aging family member can be close
 - Recent college grad can have <u>low cost</u> housing but privacy for grad and parents
 - Unit can be rented for additional income
- Disadvantages
 - Not permitted by many cities

Accessory Dwelling Units (ADU) Case Study – Denver Zoning Code



Detached Accessory Dwelling Units

- Restricted to Specific Housing Types and Neighborhood Districts
- Allowed in Urban Neighborhood District
- Height in Stories 1.5
- Located in Rear 35% of Lot
- Maximum Height 24'
- Maximum Building Footprint 650 s.f. to 1,000 s.f.

Small Single-Family House Case Study – Universal Design



http://fabcab.com/

- Zero Step Entry
- All Rooms ADA Accessible
- Interior Doors Slide Easy to Open
- Person in Wheel Chair Live Independently
- 550 s.f.
- Could Work as an ADU
- Prefabricated Home
- Cost \$150,000

Temporary ADU-like Case Study – Tiny House



http://www.tumbleweedhouses.com/products/cypressoverview/#ad-image-0

Tiny House on Wheels

- Official Classification: RV/Camper
- Potential Use: Temporary Increase in household size
 - Senior parent
 - College student returns home
 - Married child with kid(s) between jobs
 - Guest housing
- \$20-60,000 purchased
- < \$100 for the plans for DIY

Group Homes

- Definition
 - Large house with multiple <u>unrelated</u> people sharing common spaces (kitchen, dinning, and living room) with individual private bedrooms
- Advantages
 - Lower cost for any one person
 - Community
 - Blends into many single-family neighborhoods
 - Supports live in medical care
- Disadvantages
 - Not allowed in all municipalities

Group Homes Case Study – Golden Elders, Littleton



http://denvergrouphomes.org/assisted-living/littleton-co-group-homes.html

Golden Elders Group Home

- Total Capacity 8 People
- Average Age ~70s
- Assisted Living with 24 Hour Care
- Private and Semi-Private Rooms
- Daily Social Activities
- Shared Prepared Meals
- Access to Transportation

Pocket Neighborhoods

- Definition
 - 6 to 12 houses clustered around common space with encouraged social interaction
- Advantages
 - Lower cost for any one unit is possible
 - Encourages community
 - Higher density (supports walkability, government/planners happy) but still feels like suburbs
- Disadvantages
 - Typically not permitted by standard zoning
 - Depending on how organized, bank financing can be harder

Pocket Neighborhoods Case Study – Ross Chapin Examples



Example from Ross Chapin Architecture http://pocket-neighborhoods.net

www.humanlifeproject.com

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Pocket Neighborhoods Case Study – Pettaway Pocket Neighborhood, Little Rock



http://switchboard.nrdc.org/blogs/kbenfield/an_affordable_housing_enclave.html

Pettaway Pocket Neighborhood

- Incremental Increase in Density
- Integrates into Single-Family Neighborhood
- Promote Stronger Sense of Community
- 1 acre site
- 9 Single-Family Houses ~ 1,200 S.F.
- Cost ~ \$100,000 per House
- Shared Green Space
- Sustainable Features

Almost Pocket Neighborhood Case Study – Stapleton Development, Denver



Typical Single-Family Neighborhood



- 1.5 acres
- 6 family sized single-family residences
 - 4 people/house
- Minimal interaction with adjacent neighbor
 - Exponentially less interaction with neighbors further away

HLP Pocket Neighborhood Concept



Diagrams of Pocket Neighborhood and Typical Single-Family Neighborhood





ARAPAHOE Supporting Initiative



SketchUpPro

Ross Chapin Architects

Act-3D

RNL

Denver Metro City Design Competition

- What: Architectural Design Competition
- Who: Students Grade 12 and Under
- When: February 22, 2014
- Where: Arapahoe Community College in Littleton
- Theme: Pocket Neighborhoods
- Cost: Free
- Prizes: College \$, iPad, job shadow architect, software, etc.

http://humanlifeproject.com/DesignCompetition.htm









Alamo Draft House

Design Competition Details



Denver Metro City Design Competition

- Scholarship and Fun Category
 - Prizes
- Program Summary
 - 1 acre site
 - Minimum of two senior houses
 - Minimum of two family houses
 - Minimum of six houses total
 - Minimum of 2 sustainable features

** Let us know if you would like to review the final report or have a live presentation Or if you know of students that may be interested

Cohousing

- Definition
 - Multi-family with a typical size of 25-35 households with required participation in meals, social events, and maintain housing/grounds
- Advantages
 - Encourages community (mandatory social interaction)
 - Higher density (supports walkability, government/planners happy)
 - Reasonable cost to buy into existing cohousing development
- Disadvantages
 - Can be expensive to start a new development
 - Mandatory social interaction
 - Very hard for individuals to get bank financing (new project)
 - Typically not permitted by standard zoning

Cohousing Case Study – Harmony Village, Golden



Harmony Village Cohousing Community

- 27 Households (48 Adults & 18 children)
 Ages: 1 to 90 Years
- 5.5 Acre Site w/2.5 Acres Open Space
- Dwelling Units 800 to 3,000 s.f.
- Active Participation Required
- Ecologically Reasonable Community
- Energy-Efficient Buildings
- Pedestrian-Friendly
- Social Common Spaces

Cohousing Case Study – Harmony Village, Golden





Cohousing Case Study – Wild Sage, Boulder



Wild Sage Cohousing Community

- Singles, Families, Couples, Empty-nesters, & Seniors
- Mixed-Income Condominium
- Common House 3,500 s.f.
 - Kitchen, Dinning, Patio w/Grill
 - Children's and Family Room
 - Exercise Room
 - Guest Rooms
- Pedestrian and Child-Friendly
- Ecologically Responsible Community
- Walking Distance to Shopping, Park and Trials, Community Garden, & Bus Stops

How Easy/Hard to Implement



Moving Beyond Affordable Housing Affordable Living

Affordable living addresses core needs: housing, utilities, food, transportation, health/fitness, and social activities

- Mixed-Income Housing that Maximizes Living Space = Saving Housing Costs
- Eco-Friendly Building = Saving Utility Costs
- Garden and Edible Landscaping = Saving Food and Health Care Costs
- Walking, Bicycling, Car Sharing, Public Transit = Saving Transportation Costs
- Recycle and Compost = Reduced Waste
- Core Daily Destinations Centrally Located = Reduced Travel Distances/Expenses
- Account for Life-Cycle Costs = Long-term Savings
- Parks and Fitness Opportunities = Saving Health Care Costs
- Build Relationships/Help Neighbors = Savings that Continues to Give Over Time

Moving Beyond Affordable Housing Affordable Living



Housing Only

Yellow = Affordable < 30% Income for Housing

http://htaindex.cnt.org/map/

Housing + Transportation

Yellow = Affordable < 45% Income for Housing + Transportation

Affordable Living Case Study - Benedict Park Place, Denver



Benedict Park Place

- Downtown Denver
- Mixed-Income Housing with 585 Units
- Rental Units: Studio, 1,2, & 3 Bedrooms
- All Ages + Senior Housing Tower
- Retail: 15,000 S.F.
- Land Area: 14.9 Acres
- Park and School Across Street
- Urban Garden & Playground
- Fitness Center & Patio/Grill
- Walk to Bus and Light Rail Stop
- LEED for Homes Pilot Platinum and LEED ND Pilot Gold

eproject.com

Affordable Living Case Study - Benedict Park Place, Denver



Accessibility and Universal Design

1.ADA (Americans with Disabilities Act) Handicap Accessibility – Design for people in a wheelchair for daily living with ability to access all rooms

2.Visitability – Design for people in a wheelchair to visit with ability to enter the house and access a bathroom on first floor

3.Universal Design – Design for people of all ages and abilities offering the most flexibility to design for changing needs



Universal Design

1.Covered Zero-Step Entry

2.All Basic Living Spaces Main Floor or Elevator

3.Kitchen and Bathroom Special Attention to Design

4. Flexibility for Storage Heights

5. Everything User-Friendly and Easy to Reach

6.Good Lighting Inside and Outside

Family Specific Design

- 1. 3+ Bedrooms and 2+ Baths
- 2. Sound Transmission Between Multi-Family Units
- 3. Spacious Living Areas
- 4. Usable Storage Space
- 5. Indoor Running Circle for Children
- 6. Visual and Vocal Connection to Outdoor Play Areas

Human Life Project®

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