# The Management and Maintenance of High-rise Multi-family Housing Stock

Approaches and Strategies for Sustainability

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### What role plays the existing housing stock in achieving SDG11/NUA?

Stock of housing opportunities

Locational and infrastructural advantages

Stock of secondary housing market

Transferable Stock of Properties

Aging & Renewing Housing Stock

Rental Housing Options

Home Ownership Options Supply of Affordable Housing Options at Scale

Government Policies

Claudio Acioly Jr. / UN-HABITAT

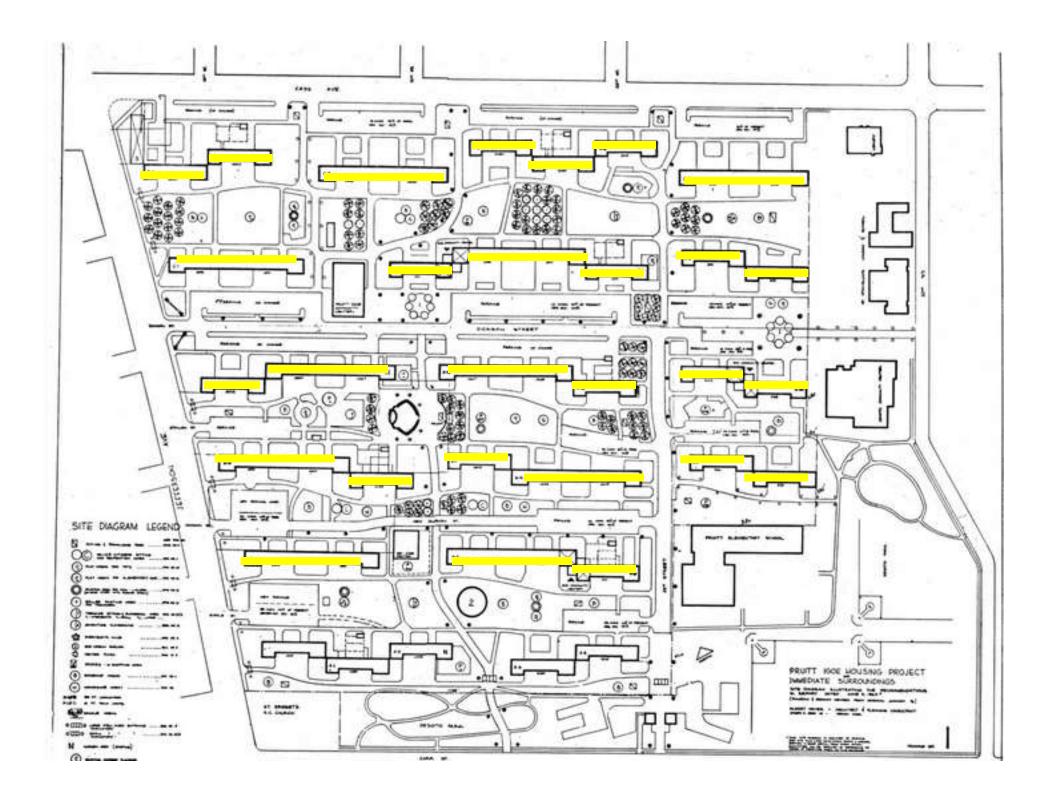
### Pruitt-Igoe Housing Project-Saint Louis

https://www.youtube.com/watch?v=5gRuyhf2opY

Few buildings in history can claim as infamous a legacy as that of the Pruitt-Igoe Housing Project of St. Louis, Missouri. Built during the height of Modernism this nominally innovative collection of residential towers was meant to stand as a triumph of rational architectural design over the ills of poverty and urban blight; instead, two decades of turmoil preceded the final, unceremonious destruction of the entire complex in 1973. The fall of Pruitt-Igoe ultimately came to signify not only the failure of one public housing project, but arguably the death knell of the entire Modernist era of design.

https://www.youtube.com/watch?v=yruO2wqiOTU





### Pruitt-Igoe Housing Project-Saint Louis

#### The Myths of Pruitt-Igoe

In 1954, the first tenant moved into the federally funded Pruitt-Igoe housing project on the north side of St. Louis, Missouri. By the mid-1960s, however, the complex's crime rate surged, the vacancy rate rose, and living conditions dramatically declined. On July 15, 1972, the city of St. Louis admitted defeat and demolished 3 of the project's 33 towers. By 1976, the razing of Pruitt-Igoe was complete. Today, half of the property is occupied by two St. Louis city schools; in the other half, an overgrown urban forest has sprung up amid the rubble.



## What does cause the failure of housing solutions?

https://www.youtube.com/watch?v=t29fgA5M7VA

OST Koyaanisqatsi (Godfrey Reggio, 1982), by Philip Glass Photo: Pruitt Igoe destruction

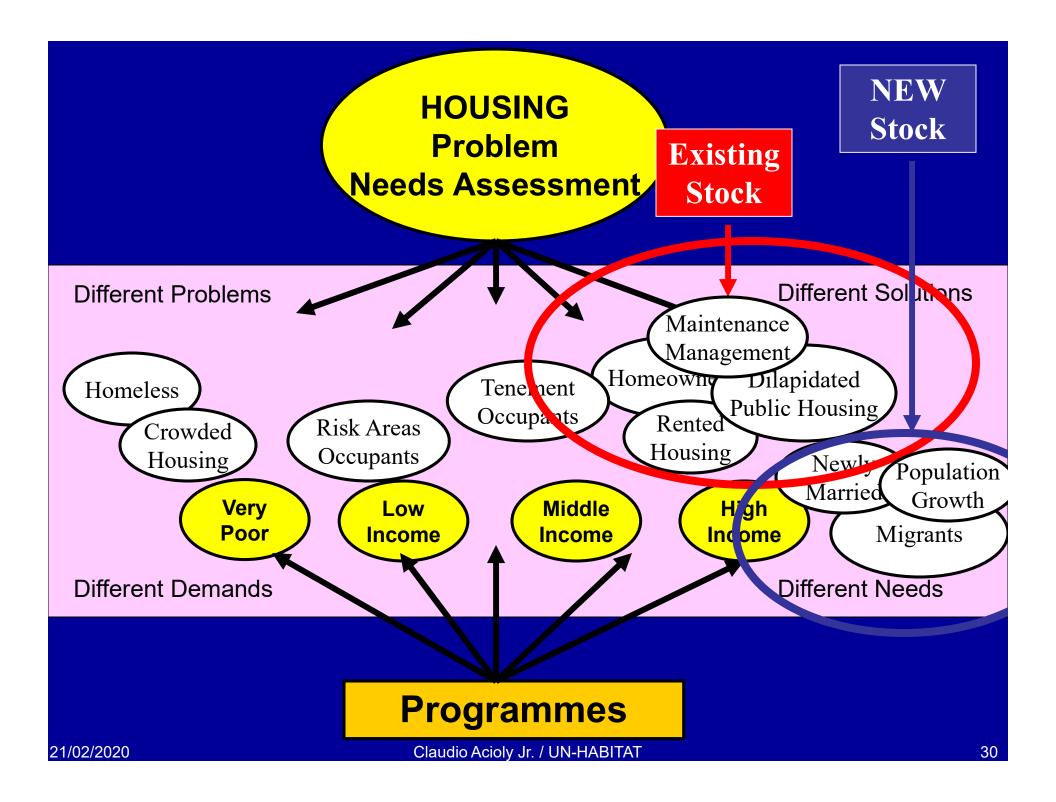
Ko-yaa-nis-qatsi (Hopi language): 1. crazy life; 2. life in turmoil; 3. life out of balance; 4. life disintegrating; 5. a state of life that calls for another way of living.

https://www.youtube.com/watch?v=7eGTU\_uXLKk

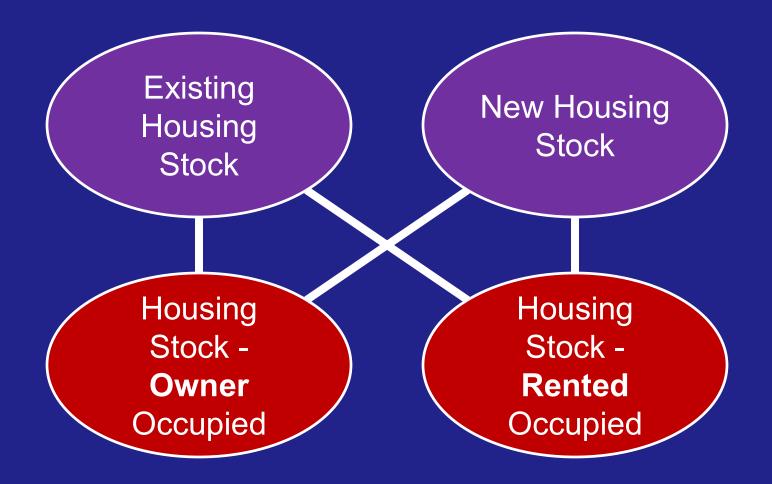
Chicago High-rise Housing Demolitions

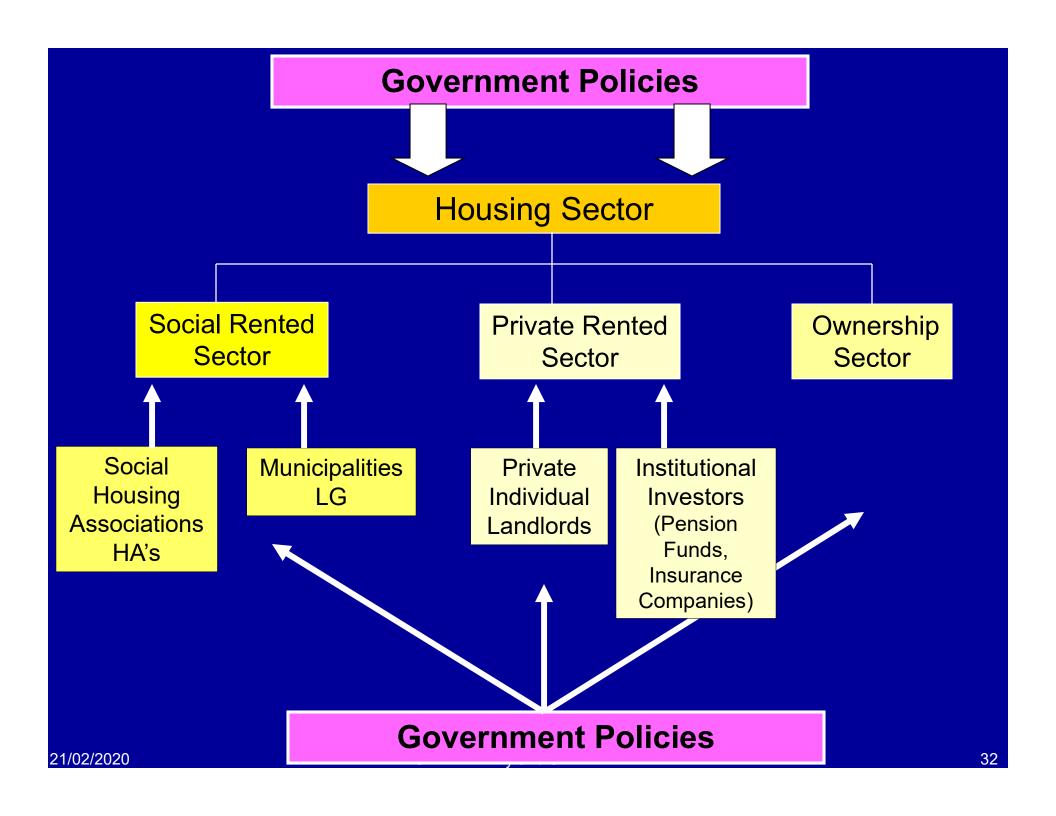
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# Housing Policy & Government Intervention: new stock x Existing Stock



# Government Policies in The Netherlands





### **HOUSING MAINTENANCE**

Social Rented Sector

Private Rented Sector

Ownership Sector

Social Landlords in charge of maintenance and management.

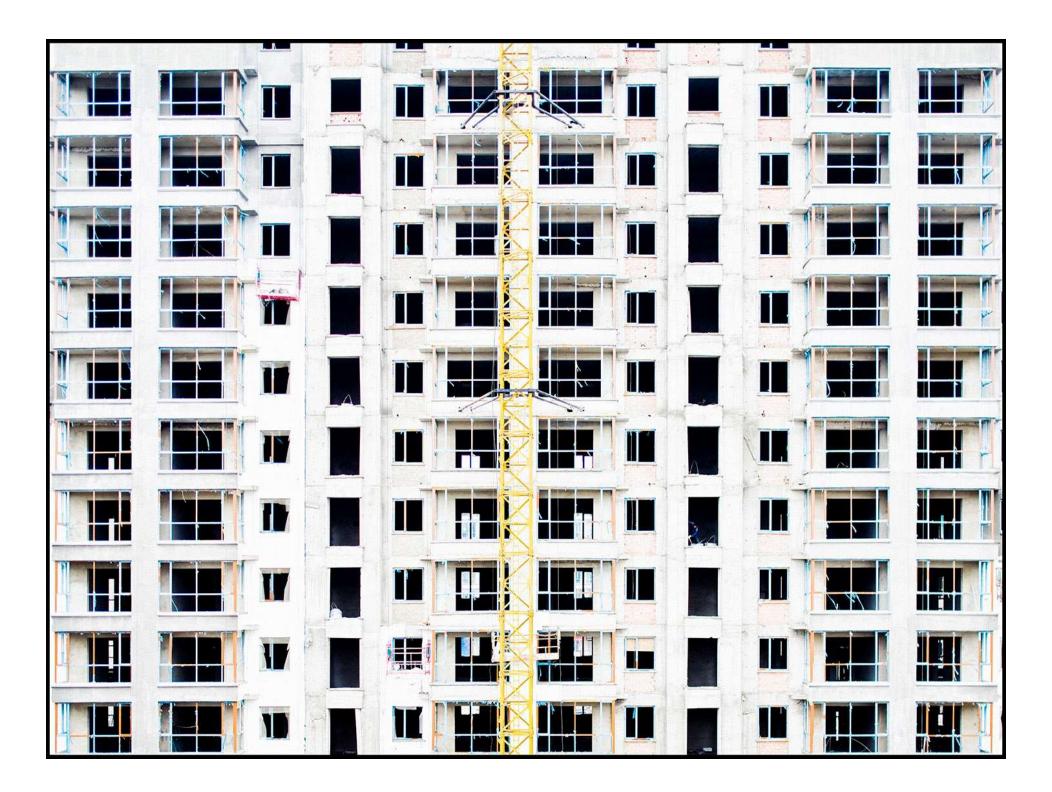
Private, institutional and Commercial Landlords in charge of Maintenance and Management.

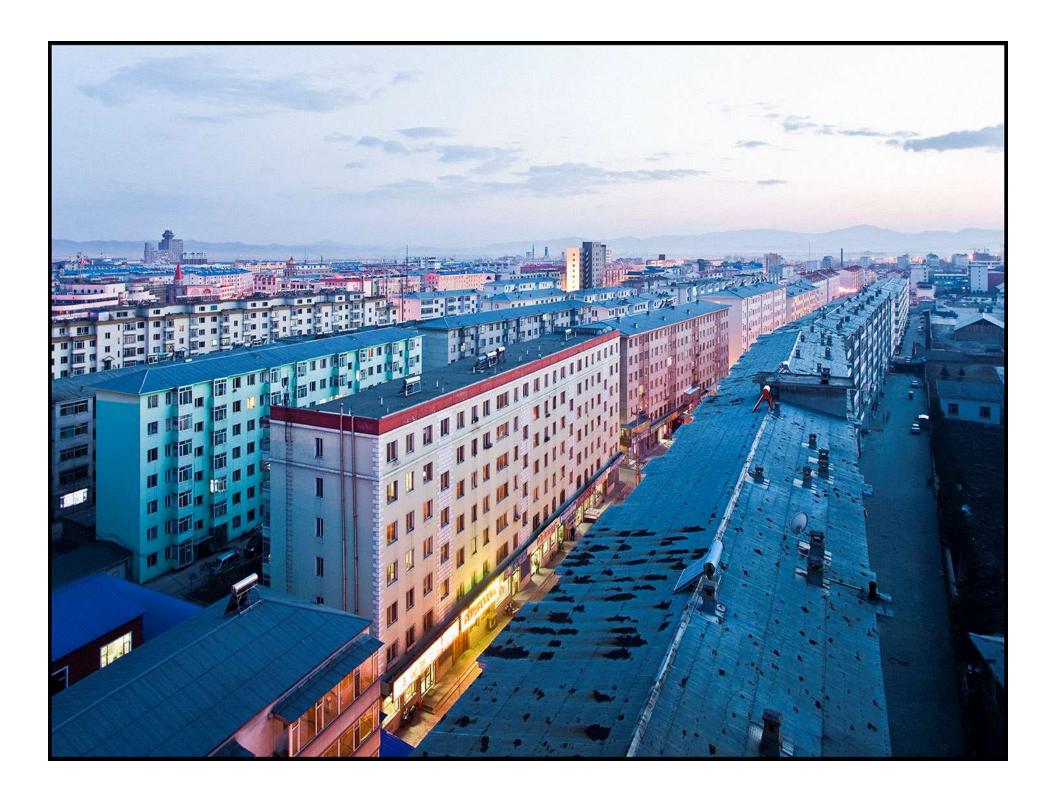
Housing Associations & Property
Management Companies

Owners Associations in charge of maintenance and management of the multi-family buildings.

Property Management Companies

Obligations & Responsibilities of homeowners.









1 out of 3 Czech Republic Family lives in a panel building

### BUT

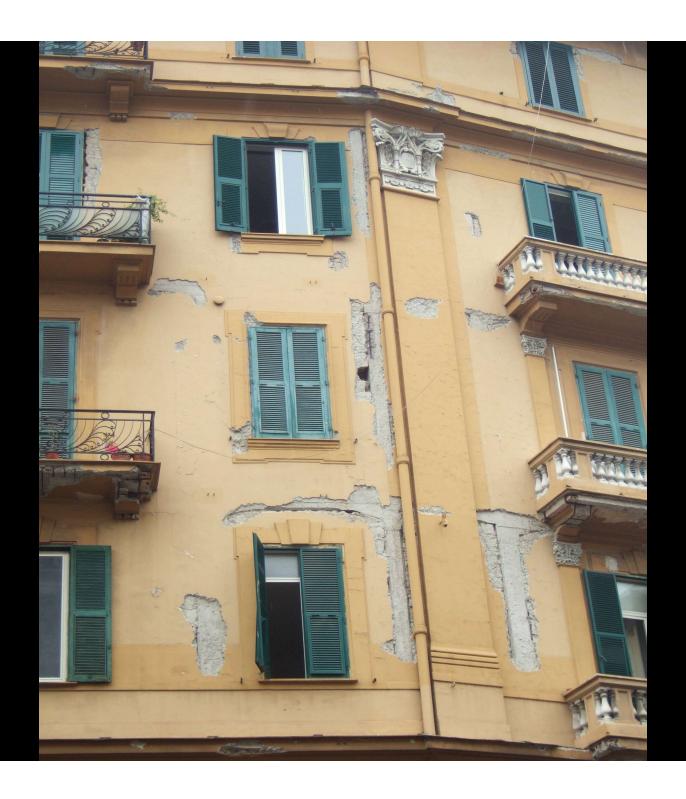
Communal spaces and communal property suffering from neglect in maintenance.



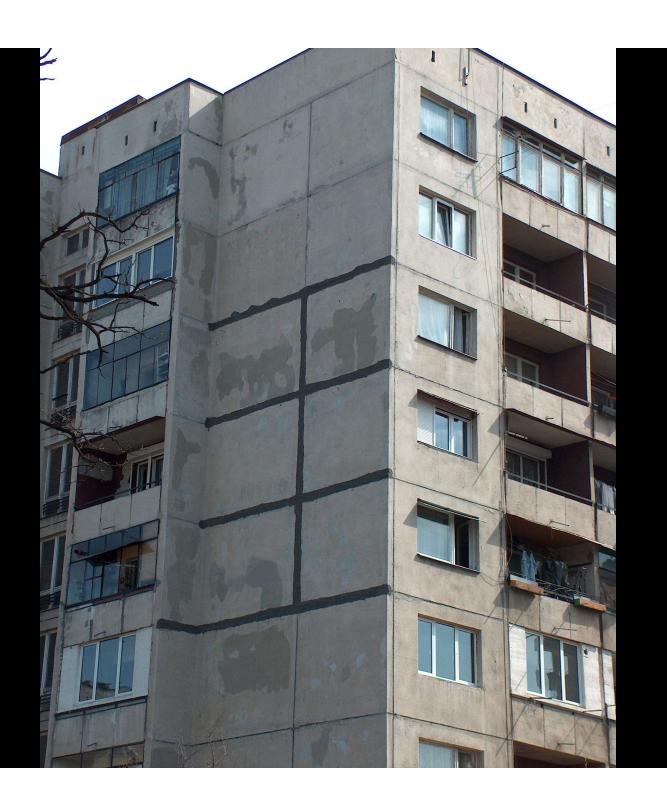
















### Maintenance and Management of the Existing Multi-family High-Rise Housing Stock

What property onwers/households are able to do on their own?



What property onwers/households are not able to do on their own?





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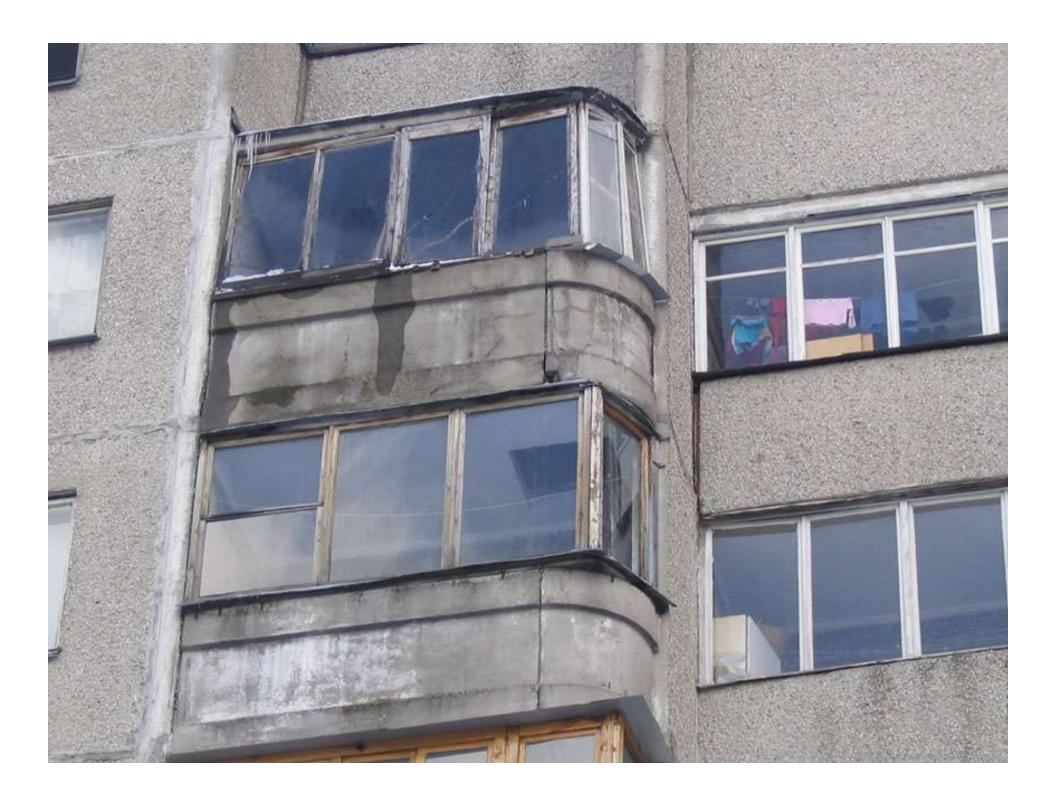
### Maintenance and Management of the Existing Multi-family High-Rise Housing Stock

Individual Responsibility



**Collective Responsibility** 









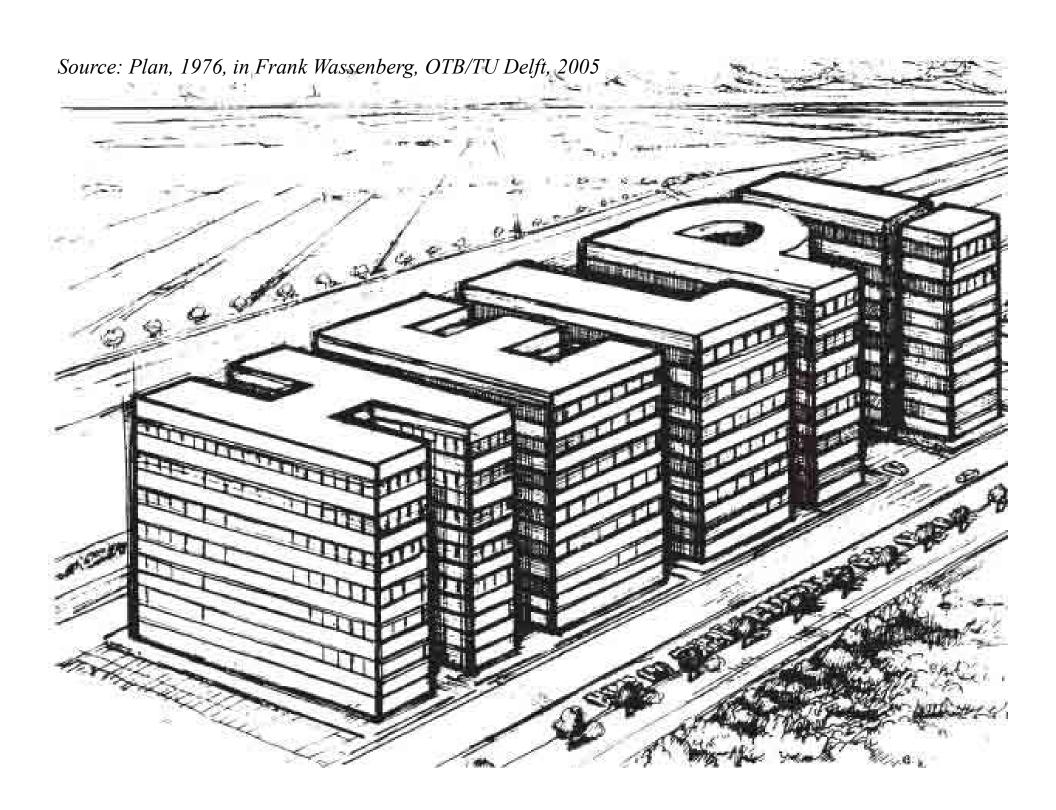




# Result (2006)

- Underinvestment in maintenance
- Estimated backlog: € 400 Billion
- Programme of Refurbishment at current tempo will last over 40-100 years.

Source: VROM, 2005; PRC Bouwcentrum, 2006



### Summary Video-Lectures

https://www.youtube.com/watch?v=Mo1354GWFLk&t=88s

Claudio Acioly, High-rise Multi-family Housing Maintenance and Management

### Short version:

https://www.youtube.com/watch?v=EtD1QBZThYk

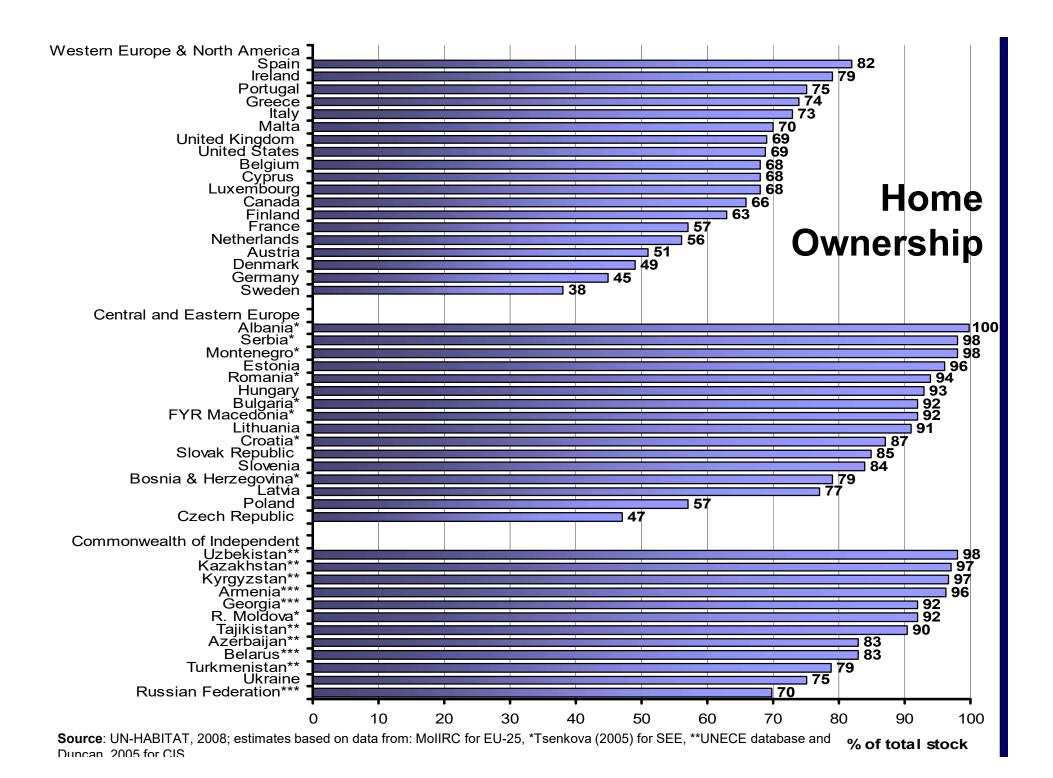
# ETHIOPIA:



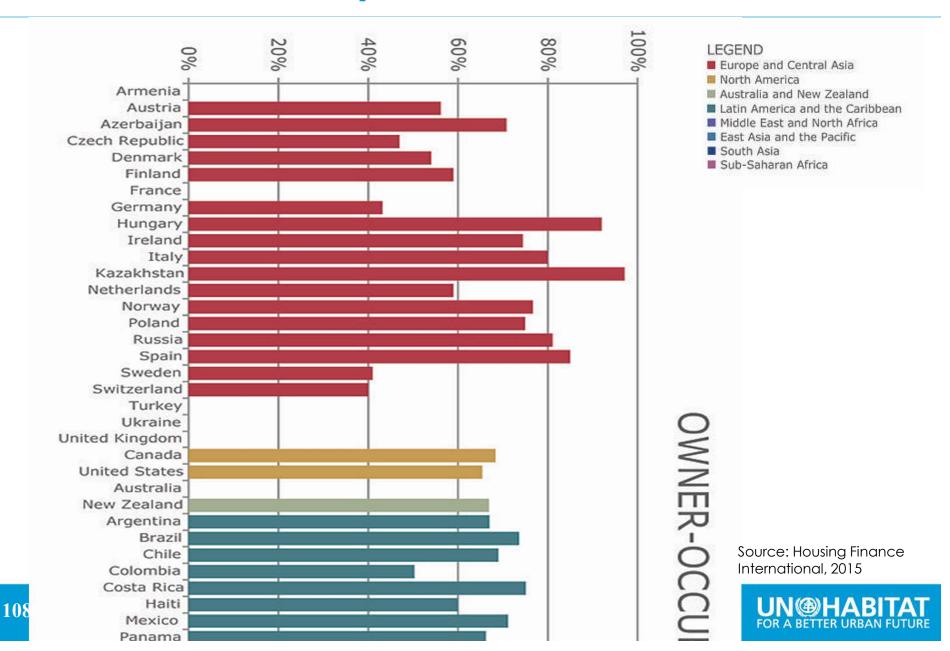
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# The Housing Stock:

### Owner X Rented Occupation.



### % home ownership



# KEY QUESTION

How to organize "repair & maintenance" in the high-rise multi-family housing stock?

How to establish practical, legal and financial arrangements that help apartment owners to fulfill their individual responsibilities for repair & maintenance in multi-story & multi-family apartment blocks in a sustainable manner??

# 6.

# Understanding the Housing Problem is the first step:

Is it a financial problem? Is it a policy problem? Is it a management problem? A legal gap?

### **Key Technical Elements:**

Common

**Property** 

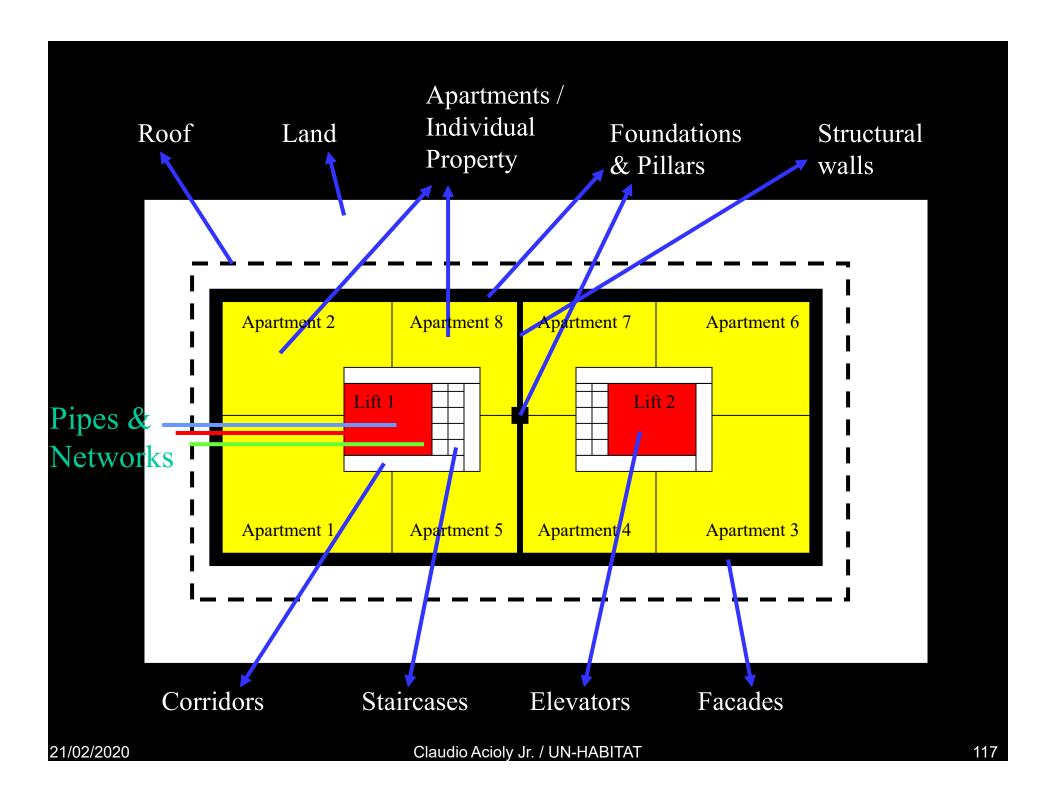
- Structured walls
- Roof
- Foundations
- Facades
- basements

Pipes & Networks

Co-owners

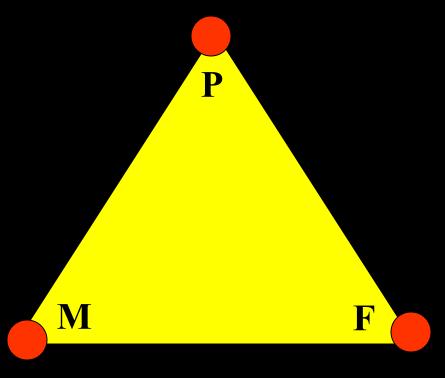
- Staircase
- Entrance
- Corridors
- Accesses
- Laundry room
- Surrounding land
- Elevators / lifts
- Common space for heating & boilers

Every owner has the right to have say in decisions over management



### The PROBLEM?

**POLICY** 



**MANAGEMENT** 

**FINANCIAL** 

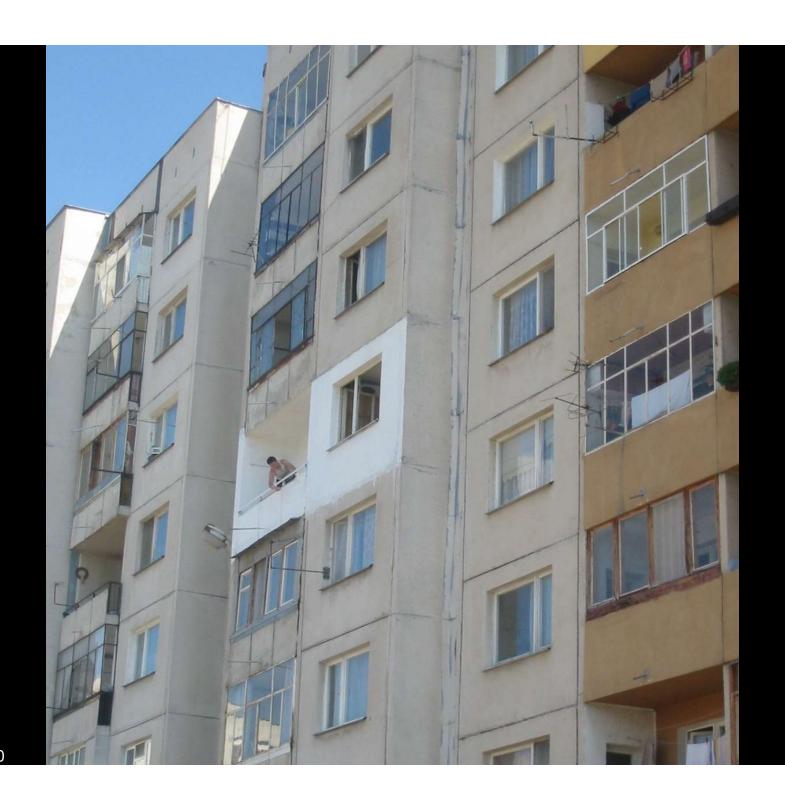
Government support roles & responsibilities

Owner Occupants

Regulatory and organisational frameworks. Support to owners. Collective arrangements, common property management

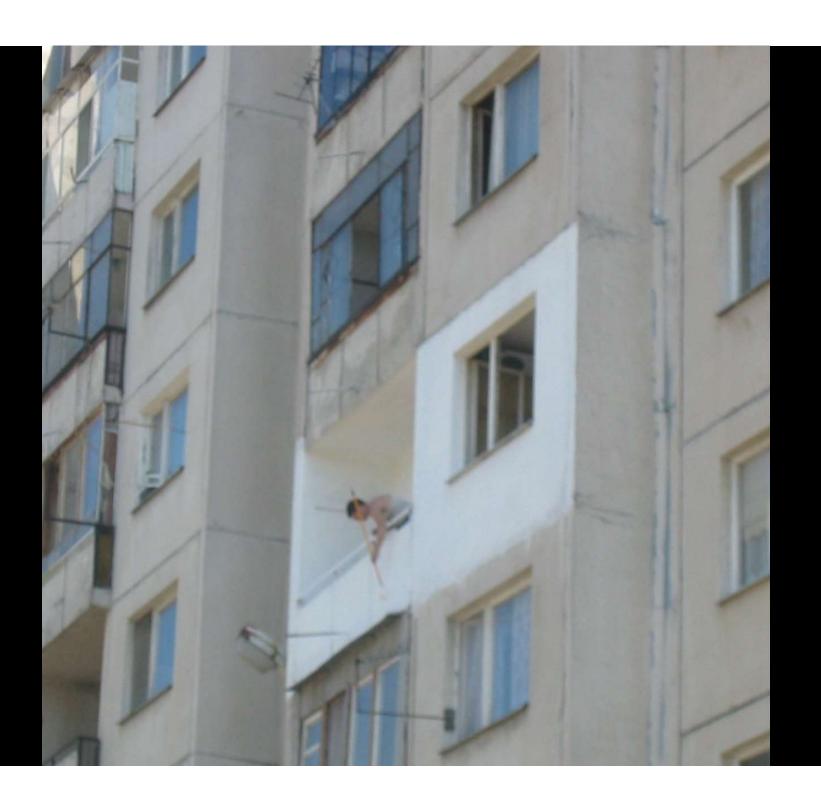
Financial support, credit provision, programme support.





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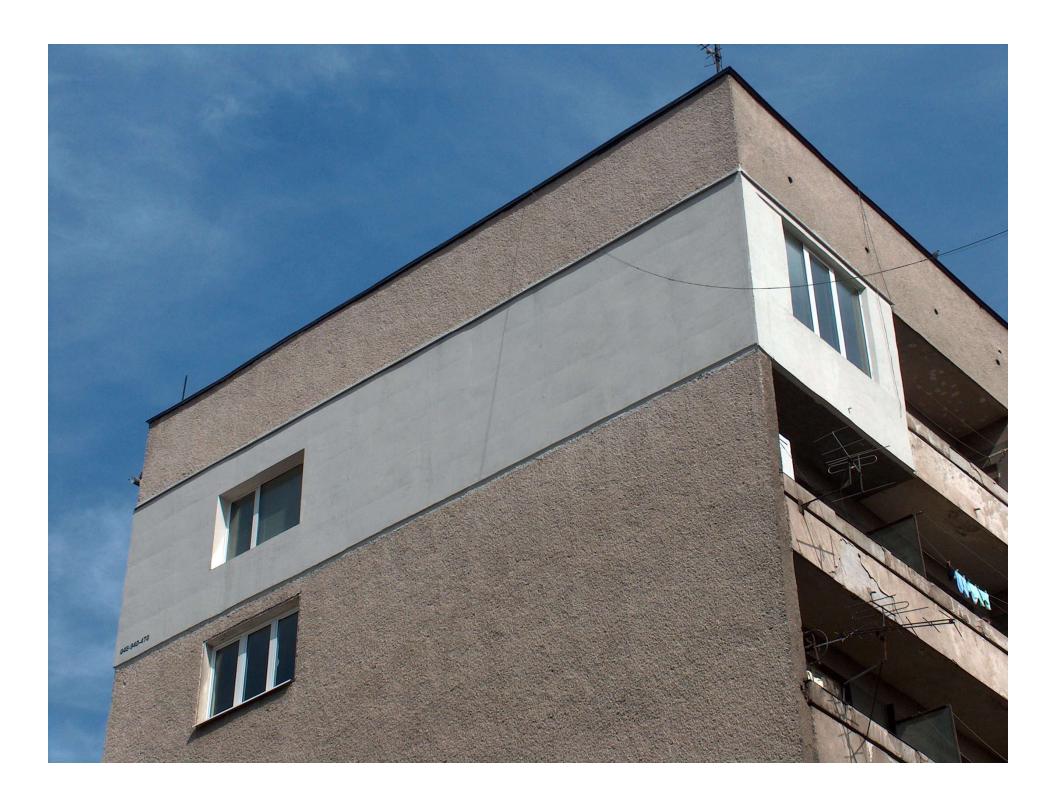
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# **Binding Decisions**Building Consensus

#### **AFFECTS ALL WHO AGREE OR DISAGREE**

Resident
Participation
is a MUST!

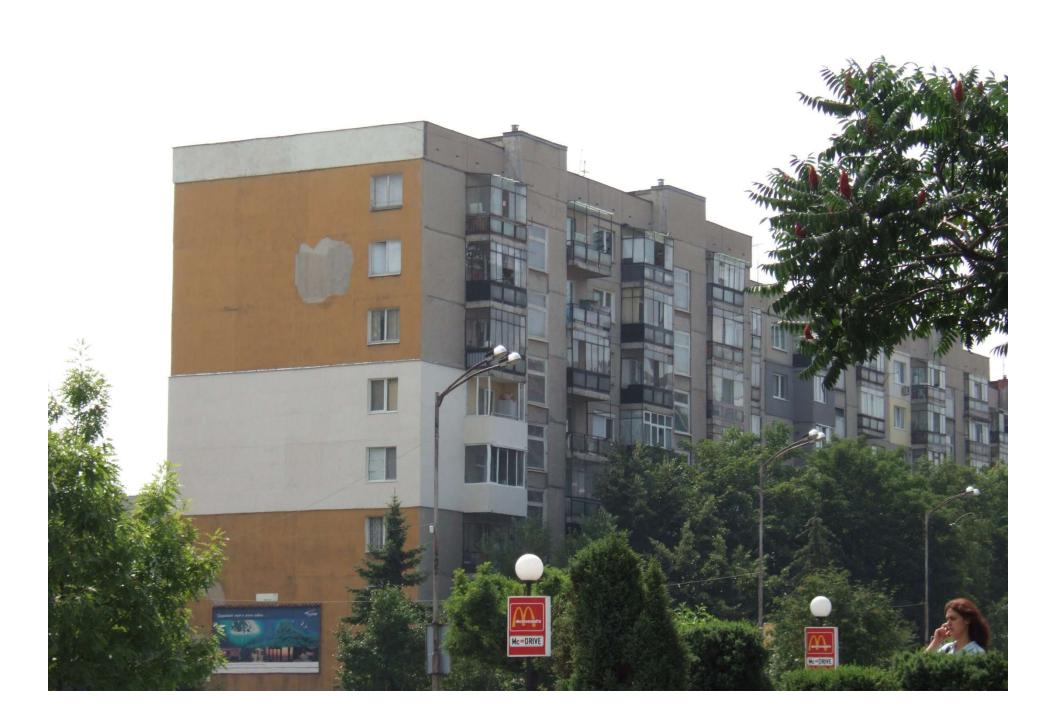


Resident Participation is a MUST!

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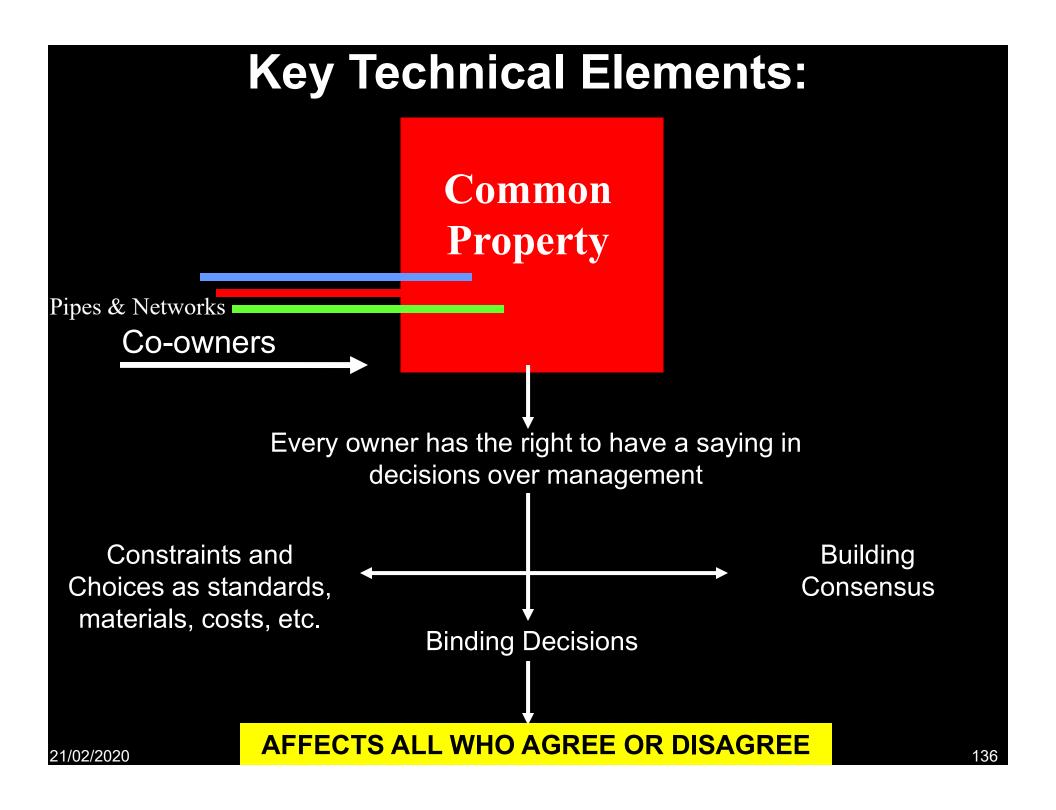


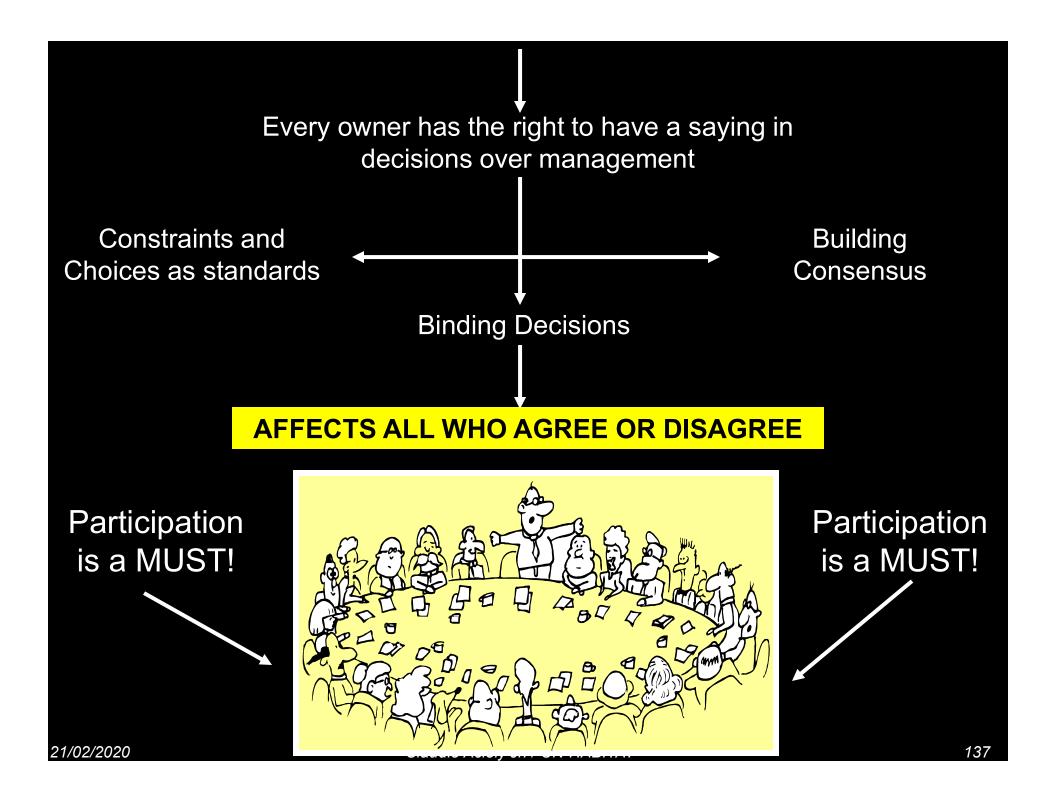


7.

### Defining the Strategy:

Getting the best of homeowners, governments and private & non-governmental players is the way forward.





### CHILE:

continuing policy and nearly universal access to housing subsidy enables progress in housing supply.



# BRAZIL:

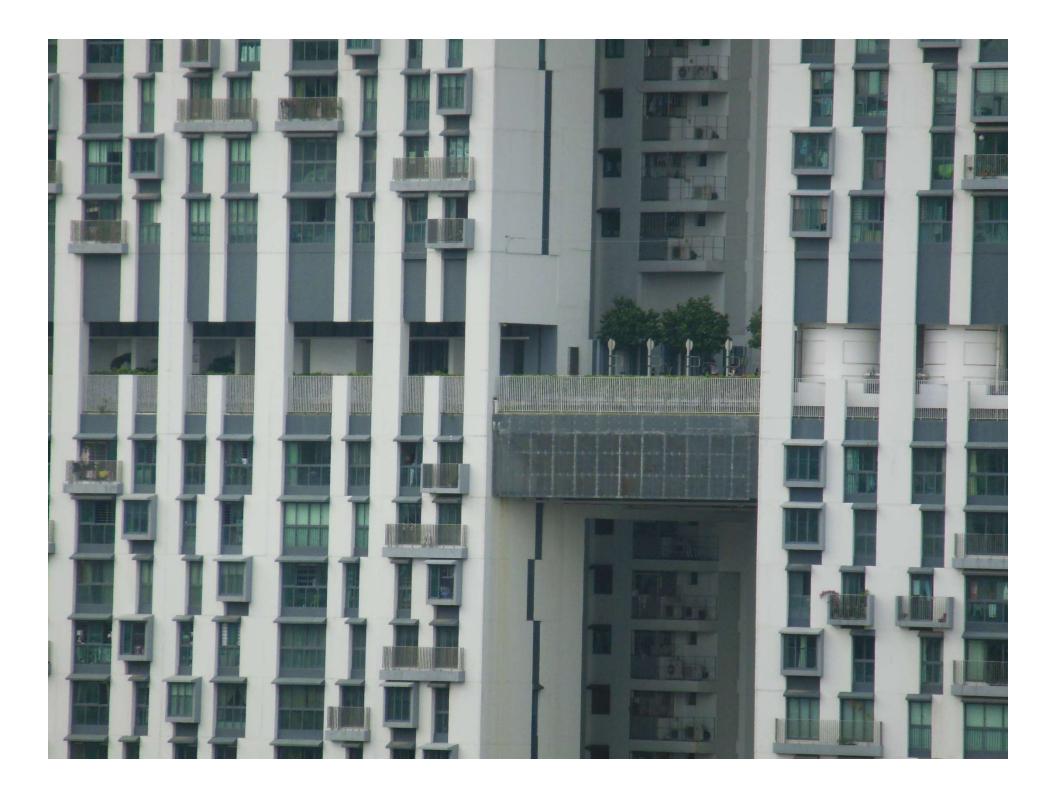






## SINGAPORE:





## SOUTH KOREA:





## CHINA:





8.

# The maintenance of the owner occupied social housing stock:

it is a private matter but government can and should facilitate it.

#### Housing Stock Management & Maintenance

Cyclical Maintenance & Renovation

Regular Maintenance, repair, safety & cleaning

Contracted Property

Management Company





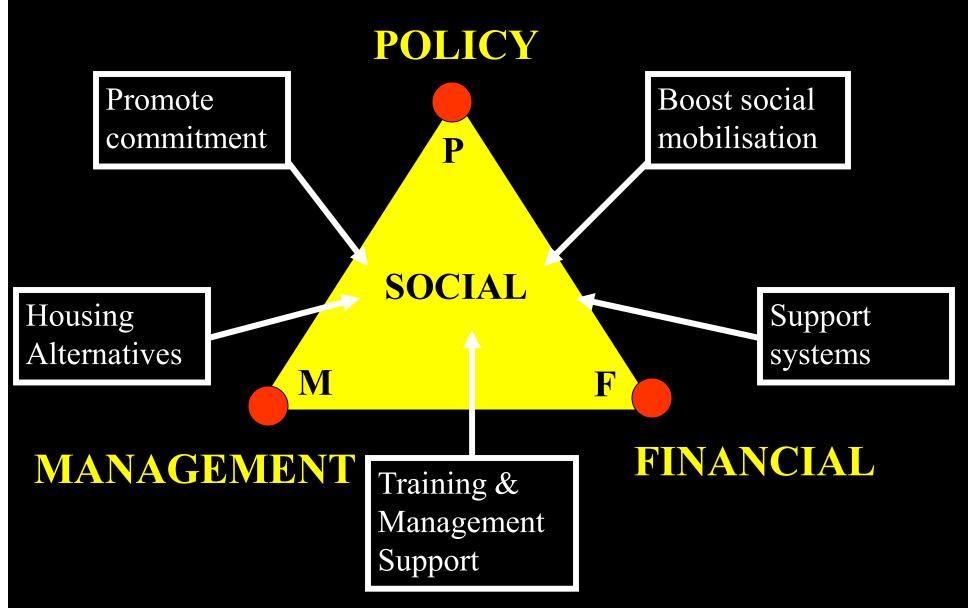
Appointment & election

**Reporting** 

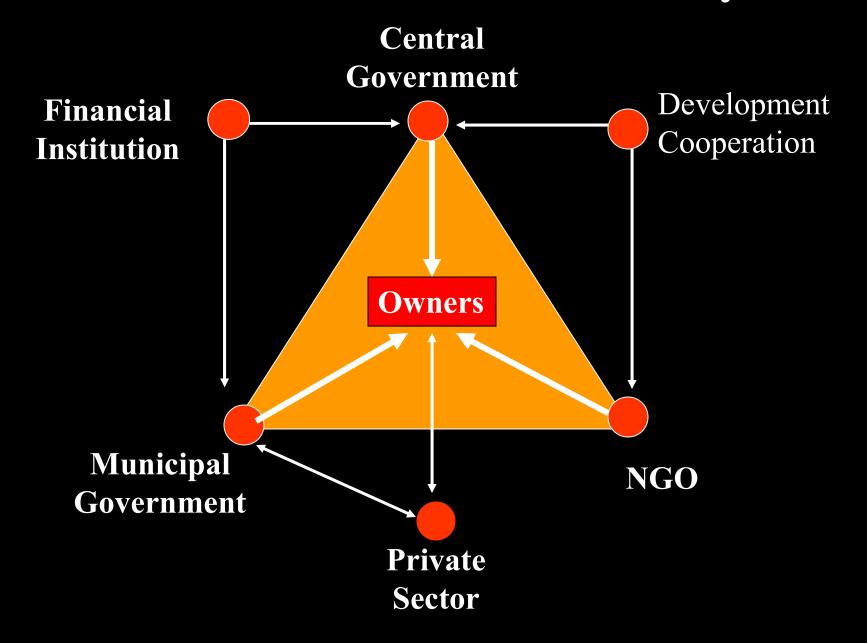
**Homeowners Associations** 

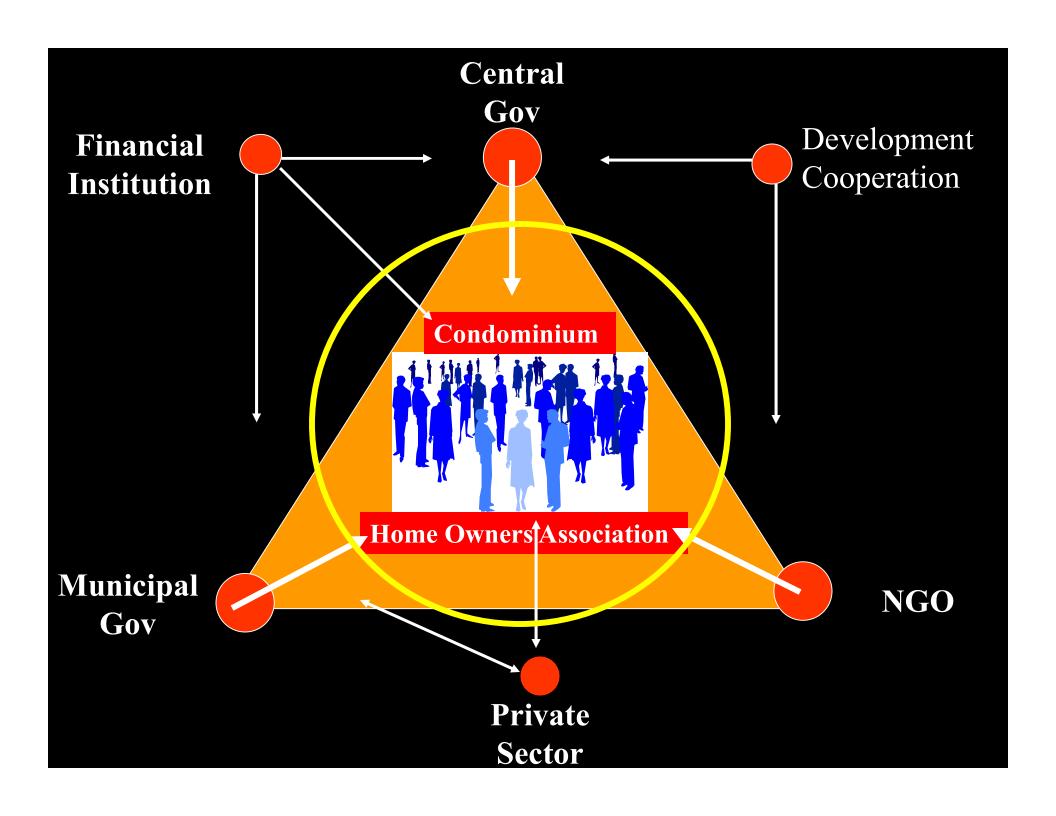


#### The PROBLEM becomes SOCIAL!

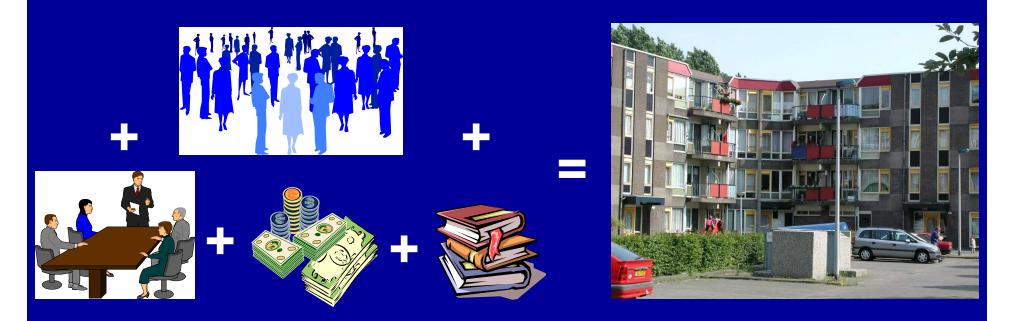


#### **Problem Resolution Involves Many Actors**





#### **BRIEF CONCLUSION**



Participation + Elected/Appointed Management + Financial Contribution + Legal Book keeping

- Individual Rights & Obligations
- Transparency and Accountability
- Property Valuation is collective interest but benefit is individual
- Legal basis and legitimacy towards third parties

### **FIVE TRENDS:**

- 1. More saying to apartment owners or leaseholders
- 2. Introduce more responsibilities
- 3. Push residents to be more actively involved in the management of their common property including surrounding land
- 4. Clearly defined boundaries between individual and common property
- Legal provisions to enforce membership and commitment of individual owners to common property management.