Sustainable Cities
‘Thanks to People’

The Cities in the World do ‘Need the People’

Dr. Fred C. Sanders MSc. MBA
At WSBE17 June 2017
Sustainable Cities ‘Thanks to People’

TODAY – More people in Cities
TODAY – we built large Cities
TODAY - We want Sustainable
TODAY – and Resilient Cities.
Only
Citizens think on Small Scale
Municipalities act on Large Scale.
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We create large Cities

Hong Kong
Tokio
New York
Delhi
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Large Cities develop Worldwide

Percentage urban and location of urban agglomerations with at least 500,000 inhabitants, 2014
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The largest cities Ranked!

<table>
<thead>
<tr>
<th>Rank</th>
<th>City / Urban Area</th>
<th>Country</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tokyo–Yokohama</td>
<td>Japan</td>
<td>37843000</td>
</tr>
<tr>
<td>2</td>
<td>Jakarta (Jabodetabek)</td>
<td>Indonesia</td>
<td>30539000</td>
</tr>
<tr>
<td>3</td>
<td>Delhi</td>
<td>India</td>
<td>24998000</td>
</tr>
<tr>
<td>4</td>
<td>Manila (Metro Manila)</td>
<td>Philippines</td>
<td>24123000</td>
</tr>
<tr>
<td>5</td>
<td>Seoul–Gyeonggi–Incheon (Sudogwon)</td>
<td>South Korea</td>
<td>23480000</td>
</tr>
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<td>6</td>
<td>Shanghai</td>
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<td>7</td>
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<td>8</td>
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<tr>
<td>9</td>
<td>New York City</td>
<td>United States of America</td>
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<tr>
<td>10</td>
<td>Guangzhou–Foshan (Guangfo)</td>
<td>China</td>
<td>20597000</td>
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</tbody>
</table>
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Urbanization Goes On!

Urban and rural population as proportion of total population, by major areas, 1950–2050

- **Africa**: 40.0%
- **Asia**: 47.5%
- **Europe**: 73.4%
- **Latin America and the Caribbean**: 79.5%
- **Northern America**: 81.5%
- **Oceania**: 70.8%

Legend:
- Urban population
- Rural population
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New Sustainable Cities Arise!
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The Top 10 Sustainable Cities

These are the world's most sustainable cities
Based on Sustainable Cities Index 2016

1. Zurich, Switzerland
2. Singapore
3. Stockholm, Sweden
4. Vienna, Austria
5. London, UK
6. Frankfurt, Germany
7. Seoul, South Korea
8. Hamburg, Germany
9. Prague, Czech Republic
10. Munich, Germany

Source: Arcadis and the Centre for Economic and Business Research
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Resilient Cities Arise!

100 RESILIENT CITIES

As home to more than half the world’s population, cities are some of the places most vulnerable to the impacts of a warmer world. Yet in many ways, they’re still not equipped to deal with the challenges climate change presents.

WWW.100RESILIENTCITIES.ORG
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Resilient Cities need the People!

<table>
<thead>
<tr>
<th>Ten Essentials for Making Cities Disaster Resilient?</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Essential 1: Institutional and Administrative Framework</td>
</tr>
<tr>
<td>• Essential 2: Financing and Resources</td>
</tr>
<tr>
<td>• Essential 3: Multi-hazard Risk Assessment- Know your Risk</td>
</tr>
<tr>
<td>• Essential 4: Infrastructure Protection, Upgrading and Resilience</td>
</tr>
<tr>
<td>• Essential 5: Protect Vital Facilities: Education and Health</td>
</tr>
<tr>
<td>• Essential 6: Building Regulations and Land Use Planning</td>
</tr>
<tr>
<td>• Essential 7: Training, Education and Public Awareness</td>
</tr>
<tr>
<td>• Essential 8: Environmental Protection and Strengthening of Ecosystems</td>
</tr>
<tr>
<td>• Essential 9: Effective Preparedness, Early Warning and Response</td>
</tr>
<tr>
<td>• Essential 10: Recovery and Rebuilding Communities</td>
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</tbody>
</table>
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To reduce increasing CO2 Emissions
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Challenge of reducing CO2 Emission

**CO2-emissions**

Op de klimaattop in het Indonesische Bali wordt gesproken over de vermindering van de uitstoot van het broeikasgas koolstofdioxide. CO2-emissies van enkele landen in tonnen per hoofd van de bevolking in 2005:

![Map showing CO2 emissions](image)

HOW PEOPLE MANAGE THEIR CONTRIBUTION

BY: Innovation, Technology, Governmental Investments

.......................... AND BY
‘People Taking Responsibility!’

ON SMALL SCALE
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Small Dutch Neighbourhood Initiatives ‘Best Practices’

Vissershop Zaandam
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Small Dutch Neighbourhood Initiatives
‘Best Practices’

Heijplaat
Rotterdam
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The Percentage of Early Adaptors is Small in numbers!
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Role Change

Role 1
- Unfreezing: Role Exit
  (Rites of separation)

Role 2
- Freezing: Role Entry
  (Rites of incorporation)

- Movement
  (Rites of transition)
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Civilian Initiative and Governmental Policy, in the overlap these are successfull!
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Citizens Initiatives of Dutch Cities Researched
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Civilian Initiative Successful by ‘Zero’ and ‘Full’ Governmental Steering
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The ‘Circle of Pride Feeling’

- **Shared Identity** by sharing culture and interaction
- **Proportional pride**: pride feelings of something, a son, a house, an ability
- **Self-esteem**: related to self-acceptance and sin-giving
- **Sharing pride** in a group sharing activities of mutual interest

(TU Delft)
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Amsterdam Small Scale Neighbourhood Initiatives
Sustainable Cities ‘Thanks to People’

Amsterdam Small Scale Neighbourhood Initiatives
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Research Set-up en Results

<table>
<thead>
<tr>
<th>Civilian Initiative Factors</th>
<th>Density to 1/1000</th>
<th>Local development factor</th>
<th>Proud Feeling factor</th>
<th>Negative Motivation factor</th>
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Pride Feelings coupled to Citizen Initiatives their foundation.
Pride Feelings coupled to Citizen Initiatives their foundation.

Conclusions
1. Sharing Pride is the Motivator
2. Sharing pride is not selective
3. Green Initiatives ask Citizens to support by Investment, time & money
4. Investments are motivated by sharing pride and Identity.
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Success factors for Civilian Initiatives

1. Small scale neighbourhood coupled
2. Frontrunners with energy
3. Citizens that want to invest
4. Municipality with patience
5. Sharing Pride Feelings
6. Recognize the power of Green
7. Exchange sustainable successes
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‘Thanks to People’

QUESTIONS AND REMARKS!
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