Dialogue and exchanges on green, inclusive and sustainable cities

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Three trends

URBANIZATION

Building boom lead to increase energy consumption and green house emissions:
- The world's building stock is expected to double by 2060—the equivalent of adding another New York City monthly between now and then
- By the year 2050 it's estimated that 6,3 bn people will live in city's.
- Today the worlds buildings consume 53% of the total energy produced, by 2040 it will be 80%..

IoT

The ecosystem of connected devices and assets:
- 10 X more incremental connected devices than incremental connected people by year 2020.
- 30 bn connected devices and gadgets by year 2020.
- 20 X more incremental connected devices than incremental connected people by year 2025.

CO-WORKING

Co-working as a concept:
- Huge increase of co-working areas in both commercial and residential facilities.
- Found in refurbished buildings, for example schools, old factory's and even found in old churches.
- Needs to be agile and adoptable systems to manage different levels of usage.
- Applications that support effective planning of our available time and decrease environment impacts.

Three recommendations

STANDARDIZE

- To enable innovation we need to standardize buildings which also enables us to easier connect buildings and other functions in the smart city.
- Standardization/Industrialization in buildings also drives cost efficiency.
- Use virtual commissioning and factory acceptance tests before on-site work begins.

SOLUTIONS

- Artificial Intelligence are mans new best friend. To manage all generated data and to have guided decision making. We already use it but much is still to be uncovered.
- Data will be collected not only from traditional sources like sensors but also from 'new' sources like mobile phones
- Use open and scalable IoT platforms when you build new or modernize your building. Secure your investment for the future.
- Connectivity increase vulnerability therefore IT-security is key.

COLLABORATION

- Standardization makes it easier to 'plug in' connected buildings to other functions in society; power grid, etc. Here we need to work more horizontal between cities, construction companies, infrastructure providers and prop tech companies - all need to collaborate.
- Today we have the technology to build tomorrows collaborative work environment, communities and cities.