The First Brick in the Smart City
- Smart Homes

WFES 2011
16 – 19 January 2011

Dilup Talaiver
LS Solutions, EE & Services Manager
Schneider Electric Life Space Business
– Gulf Countries
Smart Cities

Cities are growing. So do their challenges.

- Earth’s surface: 2%
- World population: 70%
- Global energy consumption: 80%
- Global CO₂ emissions ...by 2050: 90%

- Growing pressure on infrastructure
- Increasing demand for mobility
- Tighter economic pressure
- Rising energy consumption
- More ambitious environmental goals
- Fiercer global competition
Smart Cities: *livable, efficient and sustainable*

- 6 areas of expert solutions
- customized to cities’s unique needs
- integrated for performance
- delivered in a collaborative model

### Smart Energy
- Smart Grid Automation & Flexible Distribution
- Smart Metering Management & Demand Response
- Renewables Integration & Micro Grid
- Real-Time Smart Grid Software Suite
- Gas Distribution Management

### Smart Mobility
- EV Charging Infrastructure & Supervision Services
- Traffic Management
- Tolling & Congestion Charging
- Integrated Mobility
- Public Transit
- Traveler Information

### Smart Water
- Smart Water Networks
- Distribution management
- Leak Detection
- Water Quality
- Stormwater management and Urban Flooding

### Smart Public Services
- Public Safety
- Video Surveillance
- Emergency management
- Digital City Services
- eGovernment
- Education
- Healthcare
- Tourism
- Street Lighting management

### Smart Buildings & Homes
- High-performance Buildings*
- Energy Efficiency & Security solutions
- Energy Services
- Efficient Homes
- Home Energy management
- Connection to the Smart Grid

### Smart Integration
- Smart Planning & Stakeholder Engagement
- Power, Security, Building, IT, & Process Management Systems integrated Architecture
- Integrated City Management Platform

* Hospitals, industrial facilities, datacenters and commercial buildings
What is meant by a “Smart Home”? 

- It is rumored that “Smart Home” was first used by a home automation salesman trying to sell his products in a “consumer friendly” language.

- It is actually about using the latest information and communication technology to link all the mechanical, electrical and digital devices available, so as to create a truly interactive and Energy Efficient house.
What is a ‘Smart Home’?

Enhancing your lifestyle

Prioritising what is important to you and knowing what you want more from your home.
What do we want from a Smart home?

- Comfort & Entertainment
- Safety
- Efficiency
- Connectivity
Your Mobile Phone...
... are used to work independently...
In Modern Smart Homes...
All come together working in Harmony
Benefits of a Smart Home
Benefits of a Smart Home

➢ Aesthetics

• Obvious but sometimes missed is the ‘Wow Factor’
• Polished appearance from touchscreens and remotes for blinds, lights, audio equipment etc.
Benefits of a Smart Home

➢ **Convenience**

orchestrate the light level according to your moods

- Controlling from the couch
- Timers & Sensors to switch off equipment when you leave.
Smart Home - Convenience
Surround yourself with peace of mind

Monitor home through the connected IP cameras, and control home remotely. Receive email alert if anything goes wrong at home! Protected 24/7!
Out-of-home control
Efficiency

Achieve more by using less at home…
Energy Efficiency through automation and change of behaviour
Encouraging change of Behaviour

- Advance personal Energy consumption plans
  - Take advantage of rebates/benefits
  - Plan and adopt to change

- Benchmark on Community levels
Let’s help to Protect the Home of our homes