Safe City –
A Multi Dimensional Problem Space

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Safe City is an advanced system of integrated management solutions (systems of systems)

- Energy and Utility Management
- Physical Security and Safety
- Response Management
- Mobility Management
- Building Management
- Communication Infrastructure

Source: Frost and Sullivan
What role will Privacy play in the Safe City?
Gartner Hype Cycle: Smart City without Privacy?

Source: Gartner (July 2011):

Years to mainstream adoption:
- Less than 2 years
- 2 to 5 years
- 5 to 10 years
- More than 10 years
- Obsolete before plateau
Key Safe City Megatrends

Urbanization
70% of the world’s population will live in cities by 2050 (72% in Germany already today)

Constrained Budgets
Integrate and leverage installed systems instead of costly rip and replace

Technological Sophistication
Enables anytime, any place, any service, any network

Source: Gartner, UN-habitat, Frost & Sullivan
Safe City Key Performance Indicators

- **Economic growth:**
  - Business sees safety as positive location factor
  - High score in safety-rankings
  - Growing number of visitors, investments, events

- **Crime reduction:**
  - Low violent crime rate
  - Low property crime rate
  - Law enforcement response and crime resolution

- **Citizen well being index:**
  - Personal safety and security
  - Satisfaction with city services
  - Employment opportunities

- **Privacy:**
  - @home?
  - @work?
  - @web?
What is Safe City?

A set of tightly integrated capabilities designed to improve public security and economic and social stability by detecting, managing and preventing threats in an urban environment.

Stakeholders
- Urban Authorities
- Businesses
- Citizen and Communities

Key Capabilities
- Community Engagement
- Sensing
- Intelligence
- Prediction
- Command and Control
Urban Management

Urban Management Areas

- Education
- Health
- Government
- Transportation
- Utilities

City Technology

- E-Learning Education Server/Grids
- Telemedicine E-Health
- E-Government
- Urban Transportation Systems
- Digital Power & Water Management Peer Energy Clouds

Public Safety – ‘Safe City’ – Foundation for Urban Management

Deploys technology to ensure the protection of citizens, facilities and critical infrastructure from natural and man-made threats
Safe Neighborhood

A tightly integrated Safe City capability that allows citizens to directly communicate with command and control centers via their smartphone

• Easy to use smartphone app allows citizens to submit crime tips or “panic alerts”
  – Report non-emergency suspicious behavior to law enforcement
  – Request help immediately for urgent safety emergencies

• Tablet app supports security and safety professionals’ response to citizen reports, allowing them to maintain situational awareness
The Safe Neighborhood in Action

Citizen receives acknowledgement smartphone, submitting it with crime tip

Command and Control Receives Tip
The Safe Neighborhood in Action

Panic alert sent from same area (GPS coordinates). Operator uses camera and tracking tool to pursue the group.
The Safe Neighborhood in Action

Police see relevant information on tablet:
- Location of tip and panic
- Picture from tip
- Surveillance footage from relevant camera
Police locate and apprehend suspects 3 blocks from location of panic alert