Methods

Integrated
Logistic
Support
Engineering

Since 1973

ICT

Services

Smart City Life Cycle Management

Celebrating 40 years of Business
1973 - 2013

GRUPPO SeTeL

WHAT IS A SMART CITY?
How many topics pertain to the Smart City scenario?
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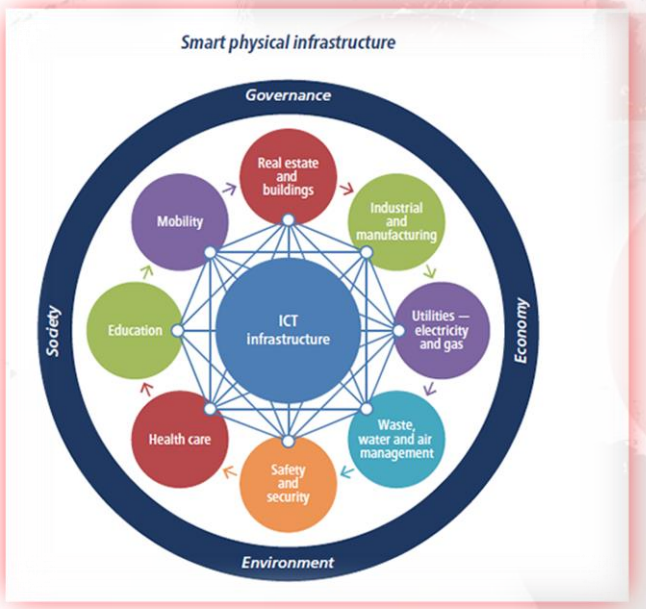
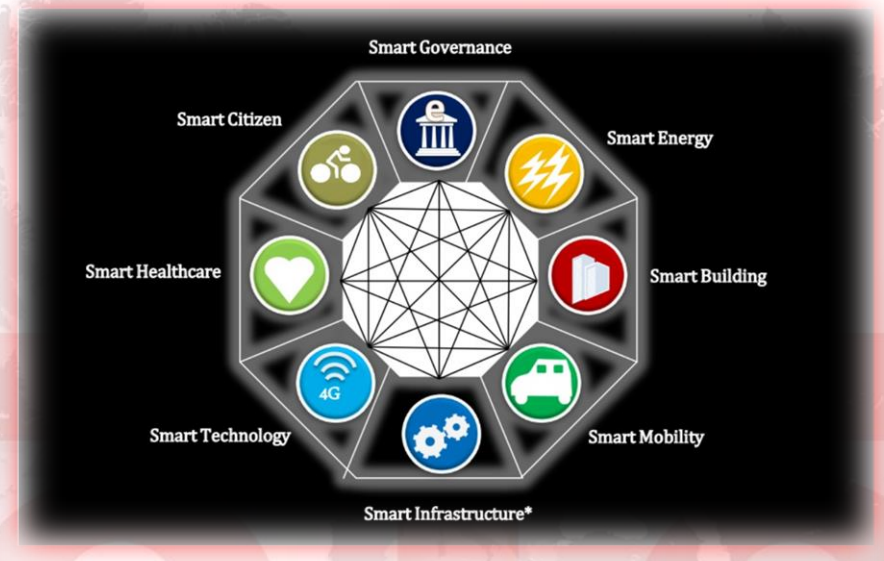
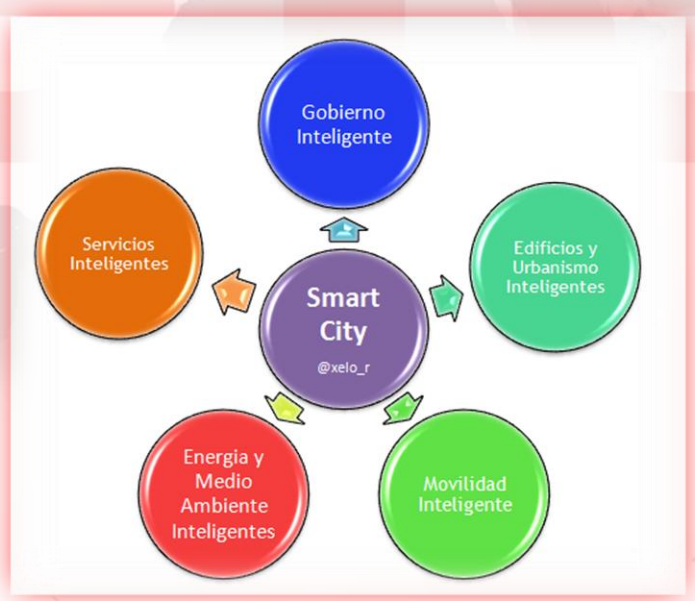
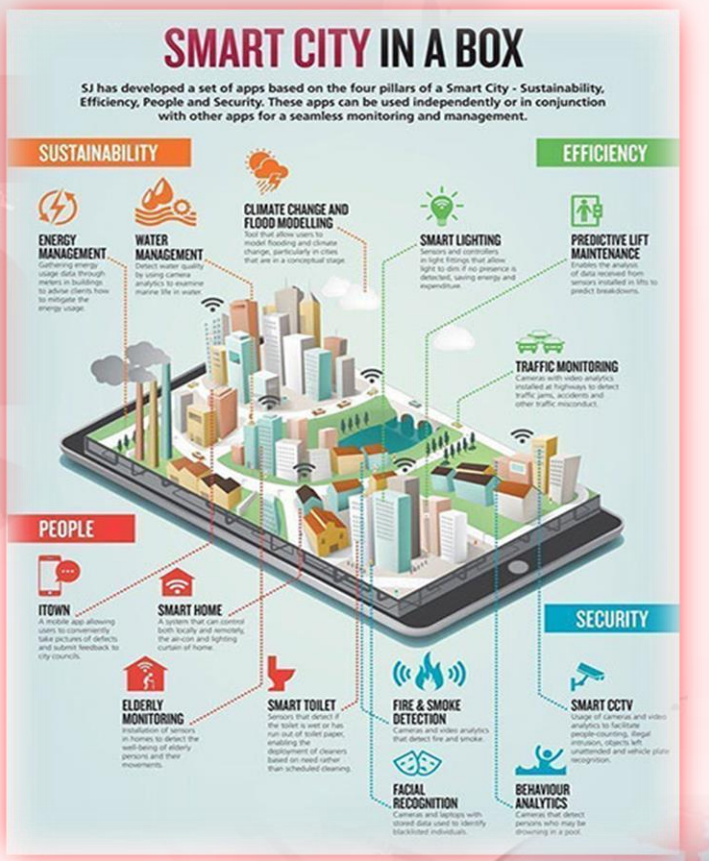
SeTeL

Scenario









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By Wikipedia

A **smart city** is an urban area that uses different types of electronic data collection sensors to supply information which is used to manage assets and resources efficiently. This includes data collected from citizens, devices, and assets that is processed and analyzed to monitor and manage traffic and transportation systems, power plants, water supply networks, waste management, law enforcement, information systems, schools, libraries, [illegible]vices.

BY WIKIPEDIA

The smart city concept integrates information and communication technology (ICT), and various physical devices connected to the network (the Internet of things or IoT) to optimize the efficiency of city operations and services and connect to citizens.

Smart city technology allows city officials to interact directly with both community and city infrastructure and to monitor what is happening in the city and how the city is evolving.

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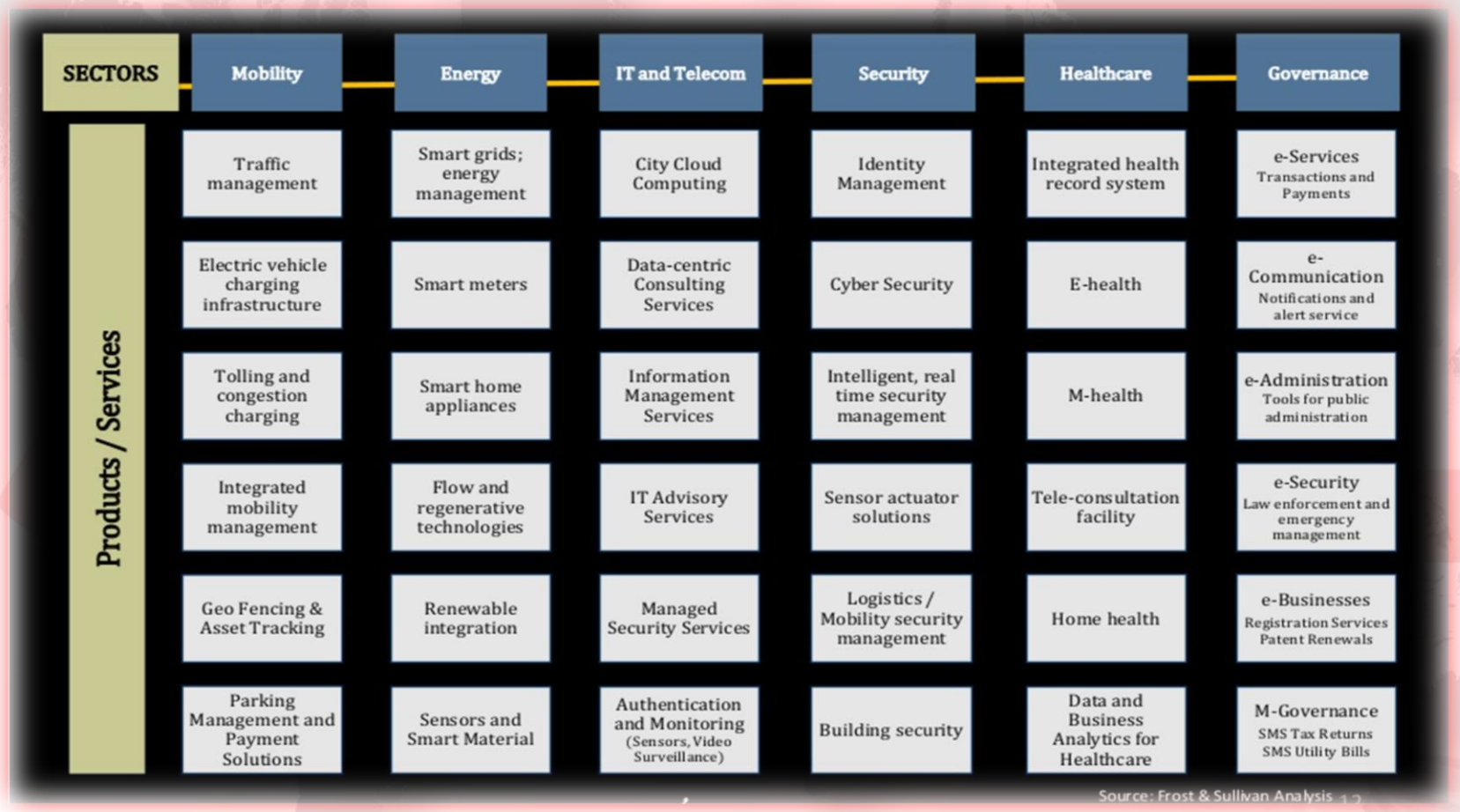
Scenario



SECTORS	Mobility	Energy	IT and Telecom	Security	Healthcare	Governance
Products / Services	Traffic management	Smart grids; energy management	City Cloud Computing	Identity Management	Integrated health record system	e-Services Transactions and Payments
	Electric vehicle charging infrastructure	Smart meters	Data-centric Consulting Services	Cyber Security	E-health	e-Communication Notifications and alert service
	Tolling and congestion charging	Smart home appliances	Information Management Services	Intelligent, real time security management	M-health	e-Administration Tools for public administration
	Integrated mobility management	Flow and regenerative technologies	IT Advisory Services	Sensor actuator solutions	Tele-consultation facility	e-Security Law enforcement and emergency management
	Geo Fencing & Asset Tracking	Renewable integration	Managed Security Services	Logistics / Mobility security management	Home health	e-Businesses Registration Services Patent Renewals
	Parking Management and Payment Solutions	Sensors and Smart Material	Authentication and Monitoring (Sensors, Video Surveillance)	Building security	Data and Business Analytics for Healthcare	M-Governance SMS Tax Returns SMS Utility Bills

Source: Frost & Sullivan Analysis

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Who takes care that
the efficiency is to be mantained
FOREVER
(or, at list, for hundred of years)
GRUPPO
SeTeL

Smart City Maintainance

Smart city technology is continuosly enhanced, consequently the city is subject to a fast obsolescenze.

New towns run the risk to became, in short time, an example of industrial archeology.

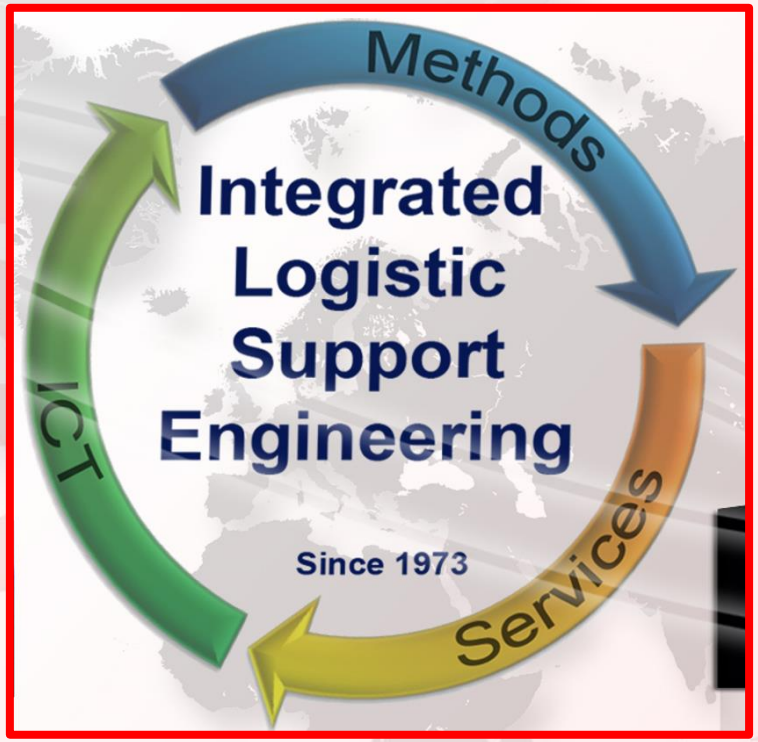
Maintaining and updating the systems during its lifecycle is a big challenge

Smart City Life Cycle Management

Since the 2° World War, the Integrated Logistic Support Engineering (ILS) faces the degradation and obsolescence of Complex Systems, seen in the entire life cicle span.

Today, ILS can be succesfully applied to the Smart Cities challenges

SeTeL operates in this sector since 1973, has managed more then 120 complex systems and fill itself qualified for this challenge



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heritage

JSF

EFA2000 EUROFIGHTER

TORNADO

MIRAGE

G222

C27J

NH-90

A-149

A-129

EH-101

NH-500 MD

ATC GIOIA del COLLE SATCAS-80-2-G

ATC TRAPANI BIRGI SATCAS-80-2-G

ATR 42

ATC SIGONELLA

AEROPORTO DI LOCARNO

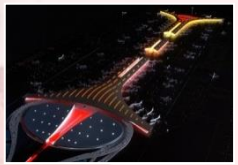
ATC KUWAIT AIRPORT

CRAV ROME CIAMPINO

B.AIRES EZEIZA AIRPORT

MOSKOW SHEREMETYEVO AIRPORT

BEIJING INTERNATIONAL AIRPORT

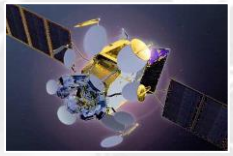


ANKARA ESEMBOGA AIRPORT

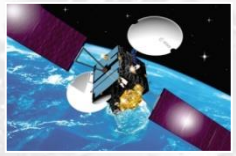
ATC DECIMOMANNU SATCAS-80-2-G

heritage

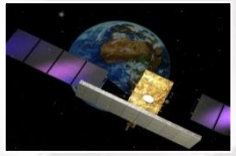
ASTROLINK



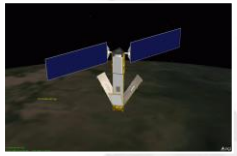
ARTEMIS



COSMO SKYMED



IRIDIUM



INMARSAT

EUMETSAT

OPTSAT 3000

SICRAL-SICRAL 1B

ENVISAT

VEGA

PGS FUCINO

CGC VIGNA DI VALLE

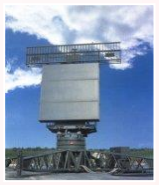
C. GEOD. SPAZ. (MT)

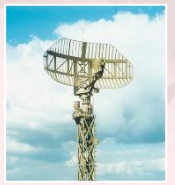
ESRIN

SYSTA

S.MARCO

EMPAR, FADR, PAAMS, VTS, KRONOS, SINDRE, RAN 40-L, PANAMA HOMELAND SECURITY, ATCR33S, PAR, GRIFO, SIR-M, RAT-31 S, MRCS-403, NA25X; RAN 20S; ARGOS 73, ARES B





heritage

SCALO MERCI

HABSAN – RUWAIS (EAU)

AV TORINO – PADOVA

FERROVIA TIRRENICA

MERSIN - BOGAZKOPRU

AV GEBZE -

ALE 711-132-FM

TAF (TRENO ALTA FREQ.)

VOSSLOH G2000

METRO ATLANTA

METRO MANCHESTER

METRO COPENHAGEN

METRO ANKARA

METRO MADRID

METRO LEGGERA AARHUS

METRO ROMA C

METRO MILANO 5

METRO BRESCIA

METRO STOCCOLMA

METRO ROMA B1

METRO GENOVA

TRAM SIRIO

TAIPEI CIRCULAR LINE

RETE FERR.NORVEGESE

METRO LOS ANGELES

E464 FS

heritage

CAVOUR

ORIZZONTE

FREMM

BDSL ALGERIA

MAESTRALE

COMANDANTI (NUMC)

BAYNUNAH

FALAJ 2

LERICI

LAT-YA

LAKSMANA

GAETA

U212A

MS ROTTERDAM

SPARVIERO

EL KASSEH ALGERIA

NITEROI

LUPO

VITTORIO VENETO

MEDINA SAWARI

Requirements
&
Verification
Management

LISA Logistic Integrated Support Analyzer

DESIGN & DEVELOPMENT

Baseline (Configuration Control)

Reliability
Mantainability

Logistic Support

1388 1A e 2B; S3000-L

S1000-D

SCORM & S1000-D TRAINING

Traditional & Interactive Technical Publications

Traditional & Technology Based Training

Methods

Integrated Logistic Support Engineering

ICT

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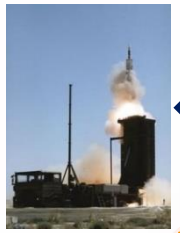
Since 1973

OPUS Suite



Customer

TPS
Technical Publication Suite

TBT
Technology Based Training Engine

IT Logistics

We would use the heritage for:

Example 1

Smart Cities vs.. Huge Ships Life Cycle Management

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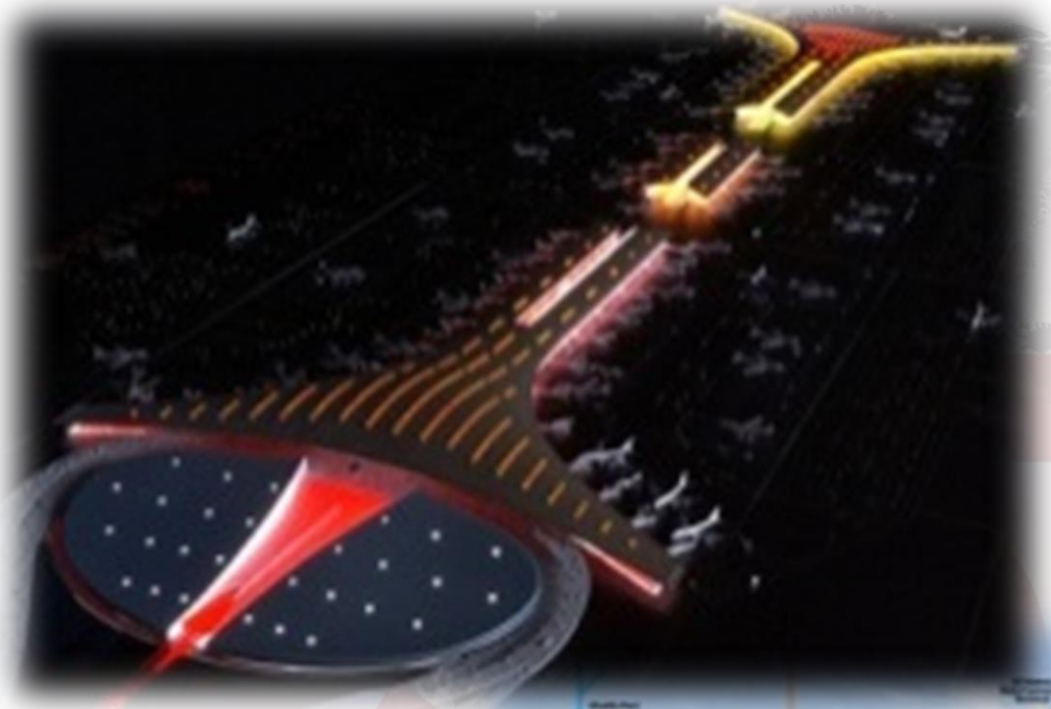

Example 2

Smart Cities vs..Transportation Life Cycle Management

Example 3

Smart Cities vs.. Communications Life Cycle Management

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Proposal

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SeTeL proposes to the **Smart City Cluster** the setting up of a Smart City Life Cycle Management (LCM) Panel, to built a network for an European project.

Smart City LCM includes and integrates, at least :

- Vertical technologies obsolescence management
- Configuration management
- Vertical technologies maintenance policies
  Maintenance sites and spares optimization
- IoT diagnostic
- Big Data Prognostic
- Maintainers and Operators Training Policies
- Operational Availability Optimization
- Life Cycle Cost management

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