

INNOVATION TECHNOLOGY GOVERNANCE




Mobilepedia

SMART CITY SOLUTIONS

SHARED SERVICES PLATFORM - FIWARE

The FIWARE Shared services platform provides a rather simple yet powerful set of APIs (Application Programming Interfaces) that ease the development of Smart Applications in multiple vertical sectors. The specifications of these APIs are public and royalty-free. Besides, an open source reference implementation of each of the FIWARE components is publicly available so that multiple FIWARE providers can emerge faster in the market with a low-cost proposition. Fiware as a solution can work as for the Integrated Control and Command Center for the cities.

Shared Services Platform - Features

A. Fiware Shared Service Platform with following features:

- **Open Source Platform**-market-ready open source software, combining components that enable the connection to IoT with Context Information Management and Big Data services in the Cloud
- **Smart Usage of Data**- Standard APIs for data management and exchange, as well as harmonised data models
- **Smart Solutions & Services**- Automation of processes across the entire value chain. Easy plug & play integration with other solutions and

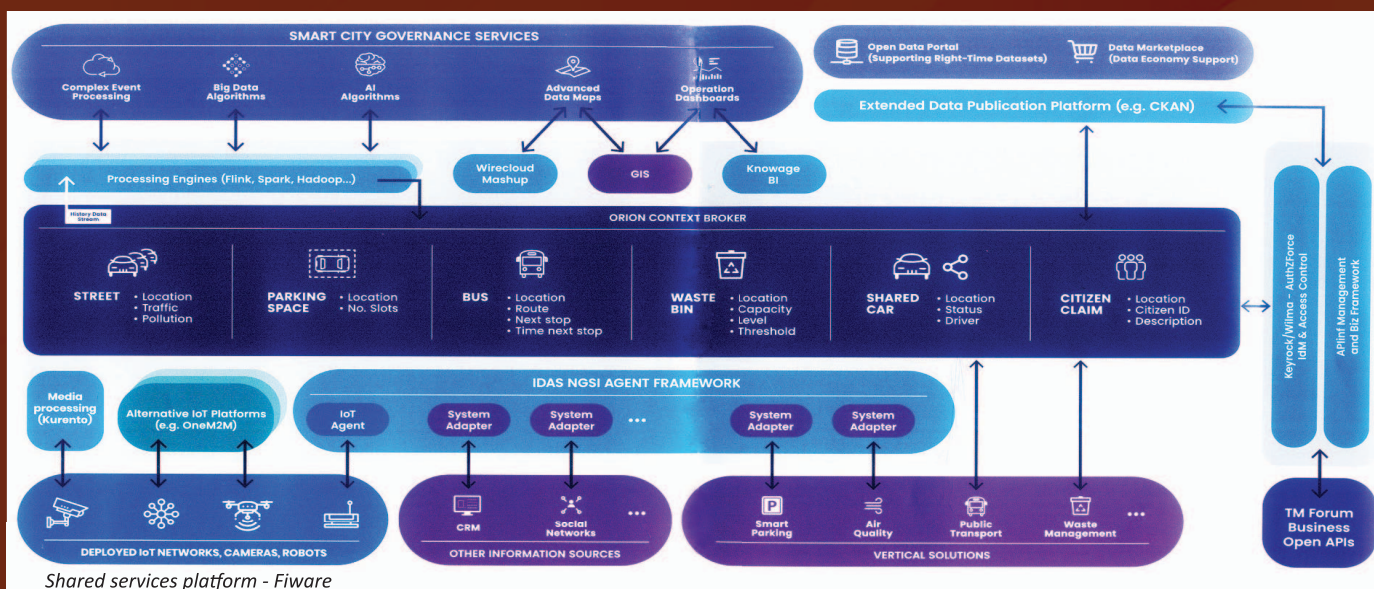
services. Part of a marketplace of portable and interoperable solutions

B. Advantage of Fiware shared services platform for Smart Cities

- The basic software (Platform and Generic Enablers) is available for everyone, for free, for ever
- A large open source developer community is maintain and further developing the open source software components
- A large group of start ups and global corporate companies are providing smart solutions and smart services based on the open source technology
- As secure as a closed source software solution
- Lowest cost of ownership for the cities
- Open data models and open APIs are avoiding a, vendor lock in effect'

ICITIES FOR GREEN GROWTH

It is a VIRTUAL Knowledge Management and Capacity Building Platform for Smart cities. It can be used for Identification, categorization and manipulation of knowledge resources, used for Knowledge sharing and provide personalized Content for smart city practitioners



Objective:

- Mainstreaming the knowledge exchange activities as an integral part of the learning & capacity building programs across the government agencies and private partners (SPVs) in selected and aspiring Smart Cities in India and connecting them with their counterparts globally.
- Establishing institutional framework for systematic knowledge management, sharing and transfer among the participating agencies
- Enable Smart City practitioners to access a range of knowledge documents, technology trends, idea notes and case studies to be able to apply this knowledge in the delivery of their functions, roles and responsibilities
- Replicate Global Smart Cities Good practices in India by setting up a peer exchange network.
- Undertake face to face interactions through knowledge exchange study tours, workshops and technical boot camps based upon demand of Indian practitioners.

A Smart Cities Knowledge System Enabling:

- Collaboration (via communities, blogs, forums)
- Finding People (agencies, experts, businesses, academia, civil society) that work with green growth smart cities solutions
- Finding Cities working with smart cities.
- A Document Library
- Showing Case Studies
- All structured around a methodological hierarchy (knowledge map)



ONE CITY ONE APP

Urban Local Bodies need to take up various measures towards effective service delivery for its citizens and envisages engaging with them to get feedback and suggestion to continuously improve overall performance and make their city as a city of choice for people to live in. Every Municipal corporation continuously working



Participatory Budgeting



Bus-Route



Citizen Feedback



Government Services Auditing



Business Environment Auditing



Service Provider



Disable Profiling



Grievance Redressal



Government Services Auditing



Missed Bin



Signal Fault Reporting



Lekhakkar



Mother child-care

towards making the lives of citizens simpler by employing ICT to deliver various Corporation-to-Citizen services in a transparent and efficient manner. Keeping in our mind all these factors Mobilepedia has developed a One City One app which help cities to engage the people of the cities in formularizing its policy initiatives bringing an all-round inclusive growth and help state to develop more citizen centric policies

One City One App Solution:

- Collaborative platform
 - ♦ Ict for green growth
- Applications for govt for monitoring and budgeting
 - ♦ Citizen feedback Application
 - ♦ Citizen services Application
 - ♦ Nirikshak Application
 - ♦ Participatory budgeting application
 - ♦ Infrastructure Auditing Application
 - ♦ Business Environment Auditing Application
 - ♦ Government services auditing Application
- Application for healthcare
 - ♦ Srishti : Mother & Child Care Monitoring Platform
 - ♦ Pregnancy care
 - ♦ Disability Profiling and Monitoring Application
- Unified app for citizen services
 - ♦ Grievance Redressal System Application
 - ♦ Service provider Application
 - ♦ Bus- Route Application
- Dashboard and analytics for Citizens and City Management

MOBILE GOVERNMENT & m-HEALTH SOLUTIONS

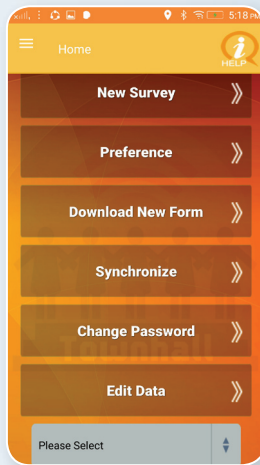
Mobile Government - Townhall

Town Hall is a mobile and web based cloud platform that helps government agencies carry out Action Accountability probe by collecting feedback on public services directly from the citizens.

The complete platform has three major components:

1. Town Hall Mobile Application:

The mobile application is currently available for Android based mobile phones. The mobile application can be freely downloaded from Google Play Store and allows users to download any survey forms created by their organization or from those available at the town hall website. The downloaded survey forms in the mobile application can be used by the organization enumerators, the survey agencies or the citizen directly to submit their responses to the questions asked in the mobile application.



In addition to capturing feedback, the application has options for clicking the photographs and tagging them to the submitted response. The submission gets automatically time stamped and geo tagged if the phone has GPRS (Internet) connectivity. In case the internet connectivity is not available, the form gets stored in the local database on the mobile phone and can be uploaded later when the connectivity becomes available.

2. **Survey Monitoring Module:** The module enables the survey supervisors to monitor the data capture progress of the survey and the performance of the enumerators on real time basis. The tool is made available to the authorised users created by the administrator through the free administration interface provided on the Town Hall website, enabling them to monitor the survey from any location in the world. The features to pass on instructions to on-field enumerators as well as accept or reject the records are built into the tool.

3. **Dashboard to Analyse the Results of the Survey:** State of the art web based dashboard is available to the Town Hall users to automatically analyse the graphically represent the results of the survey in real time based on pre defined analytical

formulae. The access to various sections of the Dash Board can be made Rights Based in the enterprise version thus providing control to the local government agencies in deciding the information that can be made public vs. the information that remains accessible strictly to the policy makers for planning and budgeting.

HOW DOES TOWN HALL HELP GOVERNMENT AND MULTILATERAL AGENCIES?

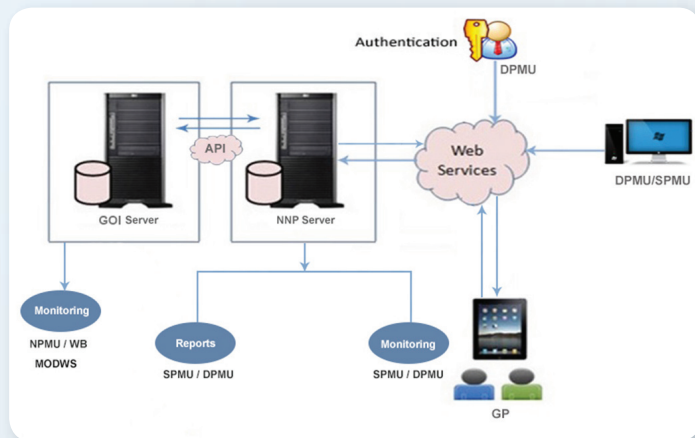
Town Hall is developed with the involvement of world renowned professionals having more than five decades of combined experience in e-Governance and development projects. The platform aims at collecting and analysing users feedback on service delivery using innovative mobile and ICT tools. It is aligned with governance workflow, and provides feedback indicators which address citizen service aspects. The analysed outputs from Town Hall is today helping many country governments and multilateral agencies by:



- ⦿ Providing a 'reality check' on service levels from the users' standpoint
- ⦿ Providing government managers with more 'granular' data at the sub-city level which could facilitate improved monitoring and problem solving
- ⦿ Providing inputs into project planning processes.
- ⦿ Most importantly, Town Hall provide a suitable platform to engage citizens/users in performance monitoring processes and encourage them to demand better service.

In particular, Town Hall can help in the following important activities:

a. **Monitoring and Evaluation:** Town Hall solution is designed for monitoring of the status and progress of development projects in any area with the active engagements of citizens/end users. The platform in its current form is optimized for governments agencies, NGOs & international development program monitoring requirements.



- b. **Field Inspections and Research:** Town Hall platform works great for government inspectors responsible for inspecting various entities for compliance with government regulations (e.g. property use, disaster management etc.) and in other multiple contexts including research organizations & industrial quality monitoring.
- c. **Mobile Health & Disease Surveillance:** Town Hall can be very effectively used for flexible patient monitoring in field situations. Data can be easily transferred to central health records. The ability of mobile health workers, in particular in rural areas, to have full access to existing patient data on and off-line, and to send and receive updates directly from the field is critical for success of multiple government and international development programs. A dedicated version of Town Hall titled "Srishti" has been developed based on for National Rural Health Mission Program of Indian Government.

m - Health Application

- a. **Srishti:** Mobilepedia m-Health platform called "Srishti" has been designed keeping in mind the process and workflow of National Rural Health Mission (NRHM) of Indian Government. The solution consists of a mobile application for Asha/ANM workers and backend analysis & information management tool for administrators. An application suite for increasing the effectiveness of Mother and Child and Health Care provides following features

- Tracking of Pregnant mothers and children to reduce MMR/IMR/TFR and track the health service delivery at the individual level
- Assist the service provider (Health worker or Doctor) by categorizing various health services the individual person has to get (with due date) and missed services
- Effective monitoring of different health services drilling down to the individual patient information
- Identification of cases for sterilization makes it an effective tool for population control



The application and the backend system can be customized as per the need of respective government agencies

Features of Srishti application

- Pregnancy, delivery and child birth registration
- Tracking of mother and children
- Monitoring of different health services
- Drilling down of information till individual patient level
- Multimedia modules for training and capacity building
- Photographs, geo-coordinates and time-stamps for authenticity of data
- Rich reporting module for effective decision making

- b. **Drug Deaddiction application:** The mobile application has been developed in consultation with health experts and is provided free of cost to NGOs engaged in drug addict's rehabilitation
- c. **Electronic Disabled Vulnerability tool:** eDVS tool is develop for identification, creation of profile and tracking of the disabled in the locality. It captures the details of the health condition of the disabled with the details of assistance required by the disabled.

Data generated through the tool is used to project the disability trends, create a comparative visualization across different regions on the basis of disabilities

- d. **Public Health Inspection (PHI) application:** This is an application which can be used by municipalities to do on field inspection of various hotels, food and beverages joints. The inspector can fill up their observation directly into the mobile application and submits to the centralized system at the end of the inspection.

Features of the PHI application:

- Field inspection of various hotels and food & beverage joints
- Compliance with health and hygiene guidelines of the local authorities
- Automatic grading system
- license of the outlets can be issued / revoked as per information collected
- Automatic grading to the outlet

- e. **Pregnancy care application**

- Provide advisory to the pregnant women at various stages
- Capture trimester details of the pregnant woman
- Notification of vaccinations and medicines to pregnant woman
- Search for nearby hospitals, doctors and medical stores
- Emergency button for emergency support
- Linkage of the pregnant woman with the local health worker



INNOVATION • TECHNOLOGY • GOVERNANCE

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