Smart Cities: Extending the reach of your GIS

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SMART CITIES

SMART COMMUNITIES

Those aspirations get translated into actionable, real-world initiatives

Implement Performance Management

Reduce Traffic Congestion

Create More Affordable Housing

Reduce Homelessness

Increase Recreation Opportunities

Improve Water Conservation

Make Parking Easier

Create Job Availability

Improve Emergency Response Times

Use Less Energy

Encourage Startups

Improve Earthquake Preparedness

Solutions Cross Departments

ENGAGEMENT
Transportation
Economic Development
Health
Community Development
Social Services
Utilites
Public Safety
Fire
Facilities
EMS
Engineering
Innovation
Land Management
NGOs
Community Leaders
Citizens
City Staff
Academia
Start-Ups

PENANG GIS
SERVING THE PUBLIC

PENANG GEOGRAPHIC INFORMATION SYSTEM

Enabling Smarter Cities & Communities

Initiated – Pilot Project

1992

Key Departments Collaboration (PeGIS, JPBD, MBPP, MPSP, GTHWI)
500 Layers
> 15 apps

>58K Online map access
100 offline application
40 Agencies & Department
Public Citizen

2016

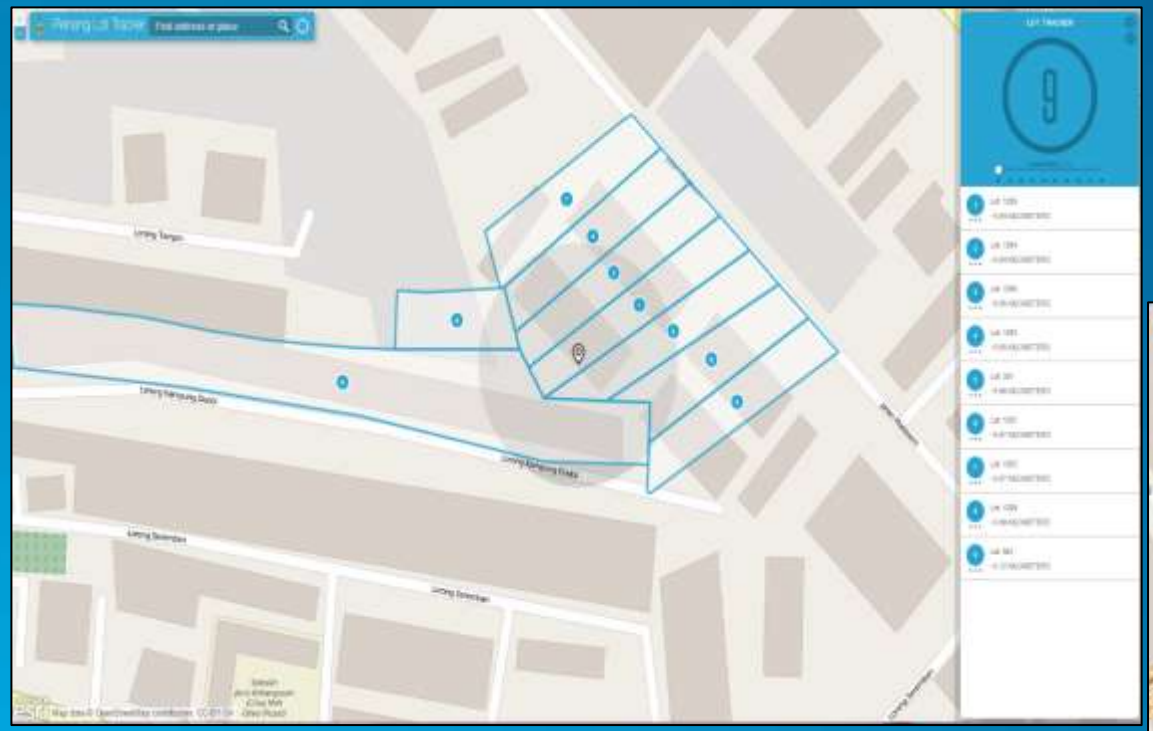
Continuous Initiatives

Big Data
Waste Management
Crowdsourcing
Community Engagement
Real-Time
Sharing & Collaboration

Sample Initiatives – Planning Submission & Land Management

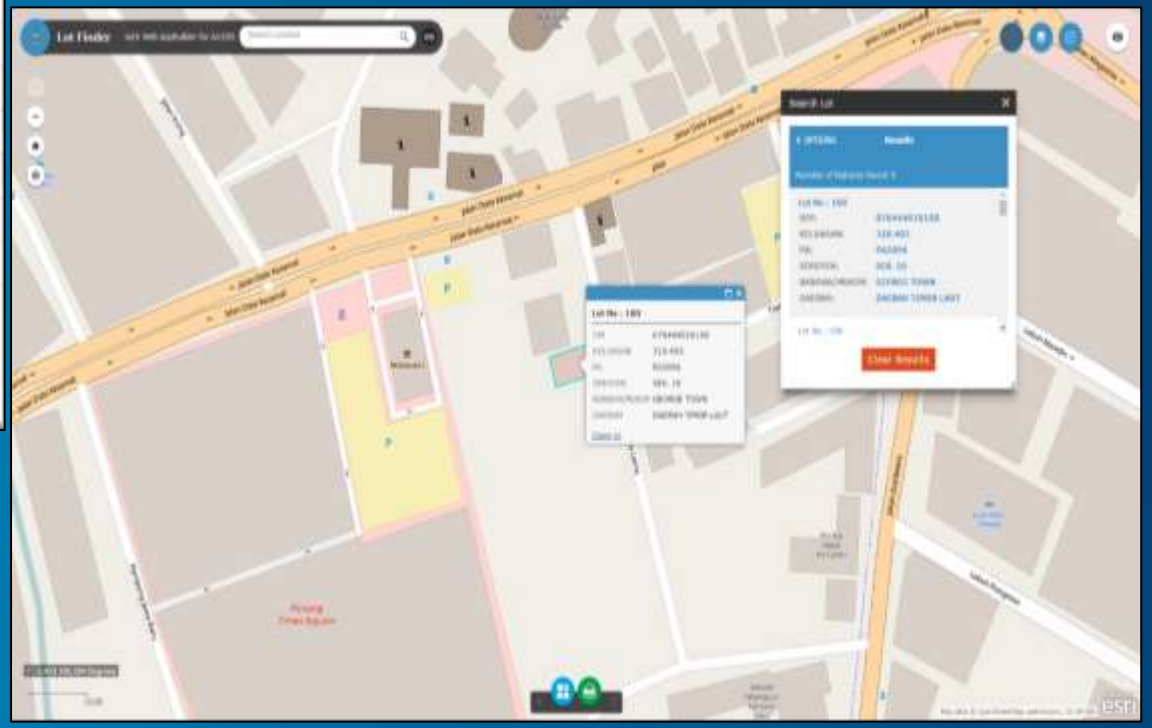
Days

Minutes



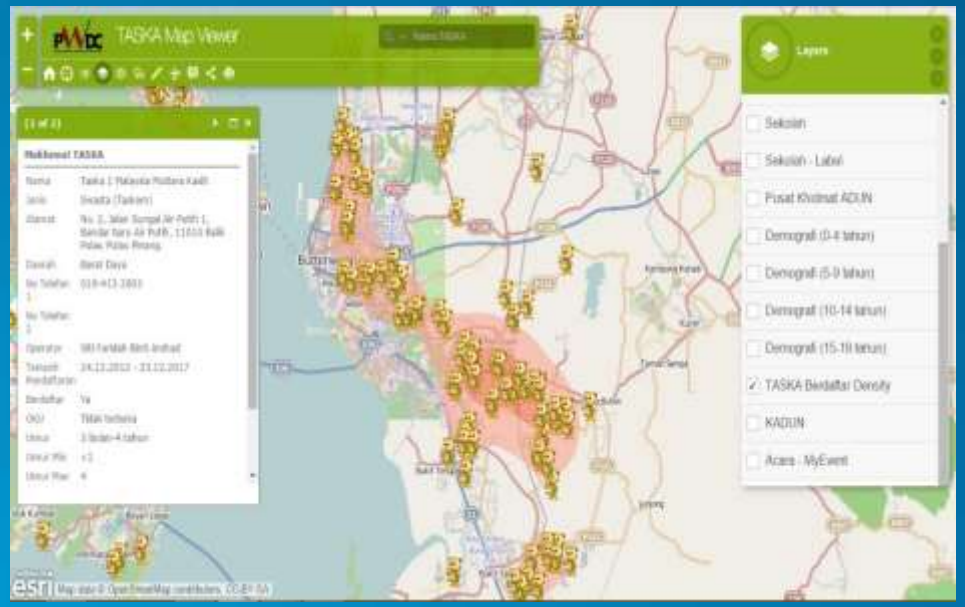
Lot Finder

Lot Tracker

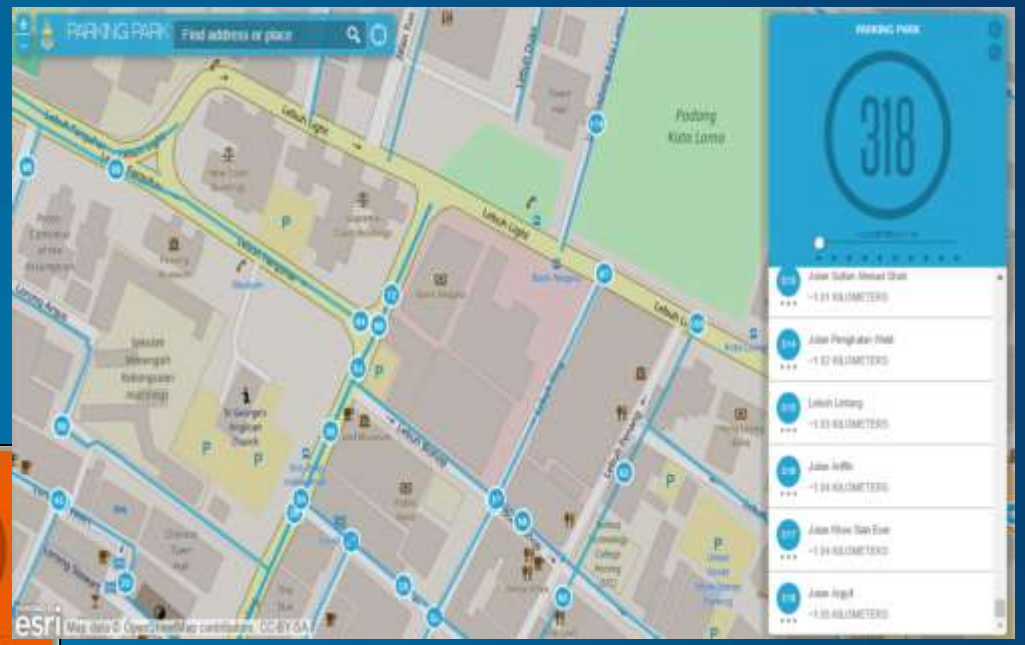


Sample Initiatives – Supporting & Serving the Communities

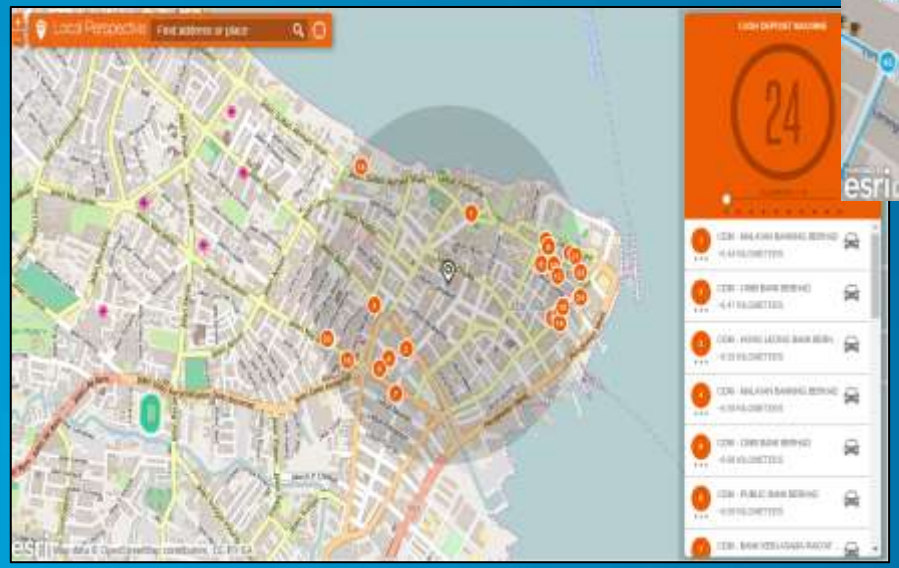
Nearest Child Care Centre?



Where to Park?



Nearest Public Facilities?



Towards Spatially Enabled Government & Smarter Nation

Establishment of MaCGDI

2002

Malaysia Geospatial Online Services (MyGOS) National Agencies Collaboration

2013

1 Malaysia Map Sharing & Collaboration Platform

2017

Continuous Initiatives

Big Data

National Geospatial Blueprint

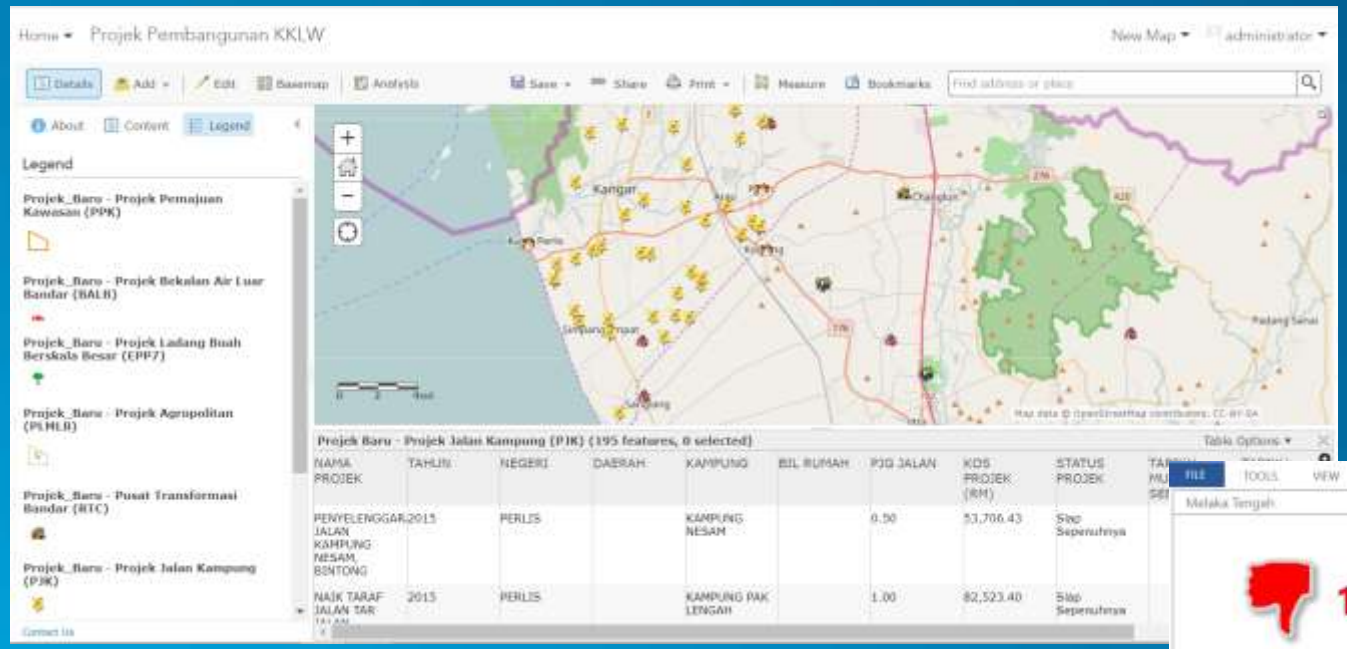
Crowdsourcing

Community Engagement

Real-Time

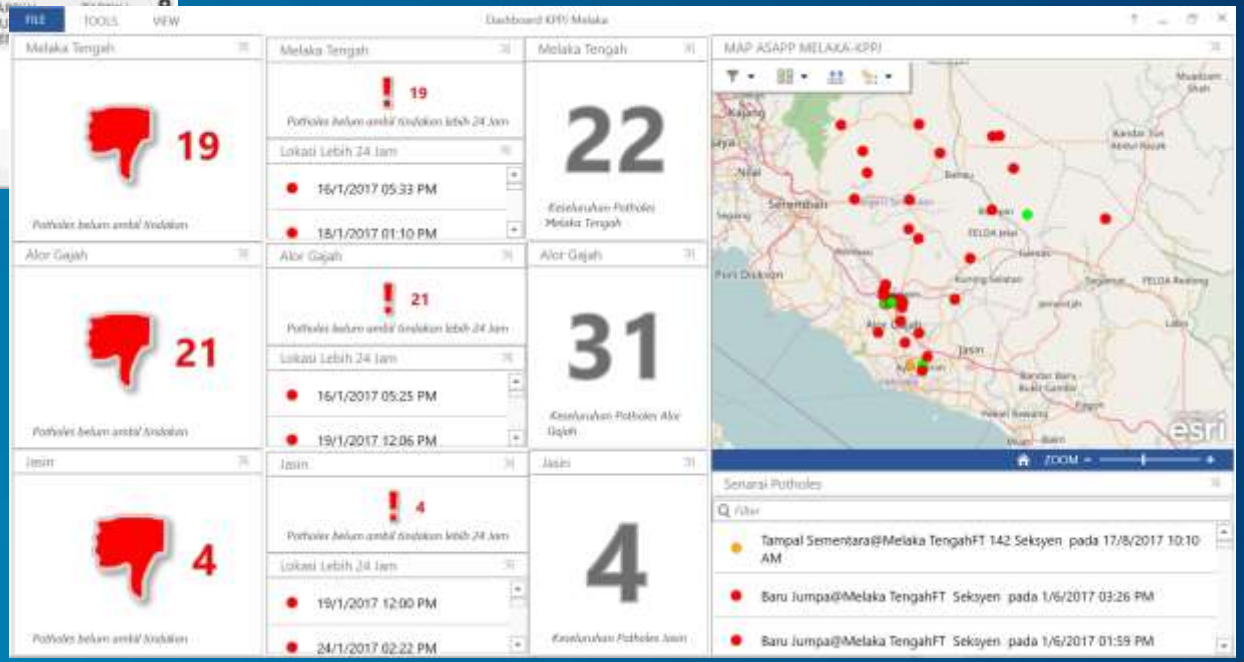
Sharing & Collaboration

Sample Initiative – Monitoring and Enforcement



Ministry of Rural and Regional Development (KKLW) - Monitoring Rural Development Project

Public Works Department (JKR) – Road Repair Status



Sample Initiative – Environmental Monitoring

Department of Environment (DOE) – Water Quality and Pollution Monitoring

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Booth # 1

Esri Malaysia User Conference

14 November 2017 @ KLCC

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THANK YOU