

WORLD e-ID  
CONGRESS

e-ID

for  
Innovation  
and Growth

Dr. Ahmed M. Darwish

# Introduction

e-ID ... Digital Identity



**Why**

- Essential ingredient to Internet economy
- Double-digit annual growth
- Countries cannot afford to be left behind

**Domain**

- For businesses, organizations and natural persons (individuals)
- Doing services within and with each other

# Mix Up

Common Confusion

**e-ID**

**Digital  
Identity**

**G2G  
Database  
Linking**

**Electronic  
ID Cards**  
(Contact or  
Contactless Chip)

# Applications

A Platform for Integrations



**Government:** modernizing states, ensuring service delivery performance while increasing citizen interaction, privacy and driving convenience.



**Social protection:** enabling the effective delivery and control of social inclusion, protection and reform programs.



**Election:** enhancing universal suffrage and increasing electoral control and integrity.



**Health:** addressing rising costs and privacy issues, and increasing access to, and management of, universal healthcare.

# Applications

A Platform for Integrations



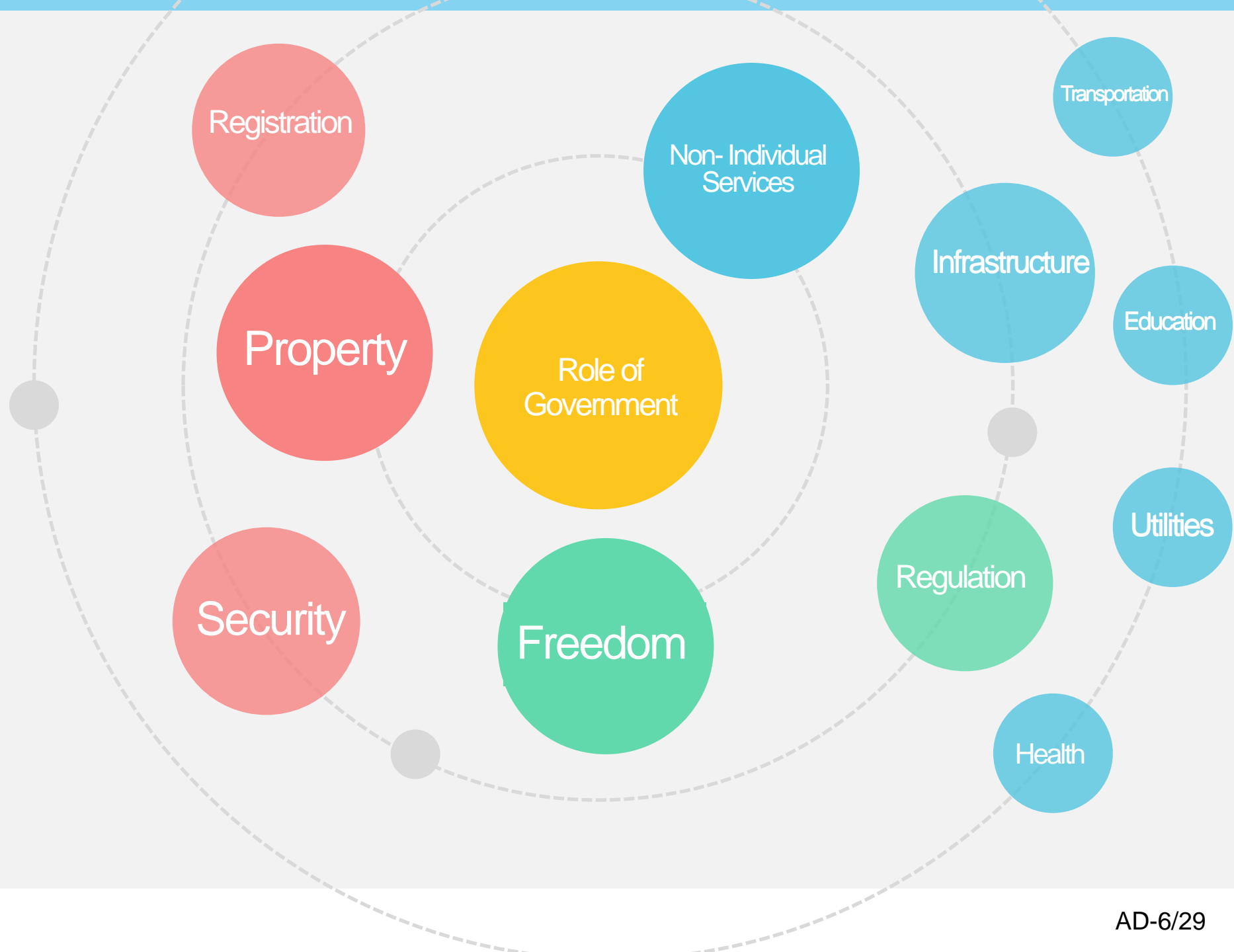
**Border control:** leveraging electronic and biometric passport technologies as effective visa and border control to assure national and regional stability, support economic growth and help reduce illegal trafficking



**Finance:** driving financial market integrity (fraud, anti-money laundering and terrorism financing), extending governance and increasing financial inclusion.



**Energy:** optimizing energy efficiency programs, managing subsidies and supporting national and international energy diversity, sustainability and independence.



# Features

....

- Open, transparent and accountable to citizens
- User-centered, excludes no one and provides personalized services
- Productive and delivers maximum value for taxpayers' money – less time wasted in queues, fewer errors, more time for professional advice and guidance
- Transactional – supports 24x7 access to online services for paying taxes, applying for ID cards, birth certificates, passports, license renewals
- Connected – enables inter-agency, central and local government connections and wider connectivity to other stakeholders (private sector, academic institutions, NGOs, civil society).


The accumulated **complexity** of government procedures became a huge burden on service receptionist and budget, which meant to citizens **longer time** and **higher tax rates**.





↑ **PULL** ↑

---



↑ **PUSH** ↑

---

Who wants to deal with the government,  
close to **none!!**

If government can guarantee that **regulatory issues** are taken care of without the citizens and investors noticing, this will be a major **success.**



An **intelligent** way  
to anticipate  
citizen needs and  
provide them  
before request.

# **Invisible Seamless Government**

# Ingredients



**National ID**

**National Databases**

**e-Gov**

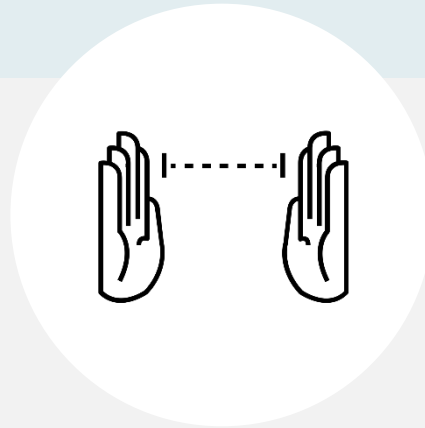
**G2G Architecture**

**Governance**

**Geo Data**



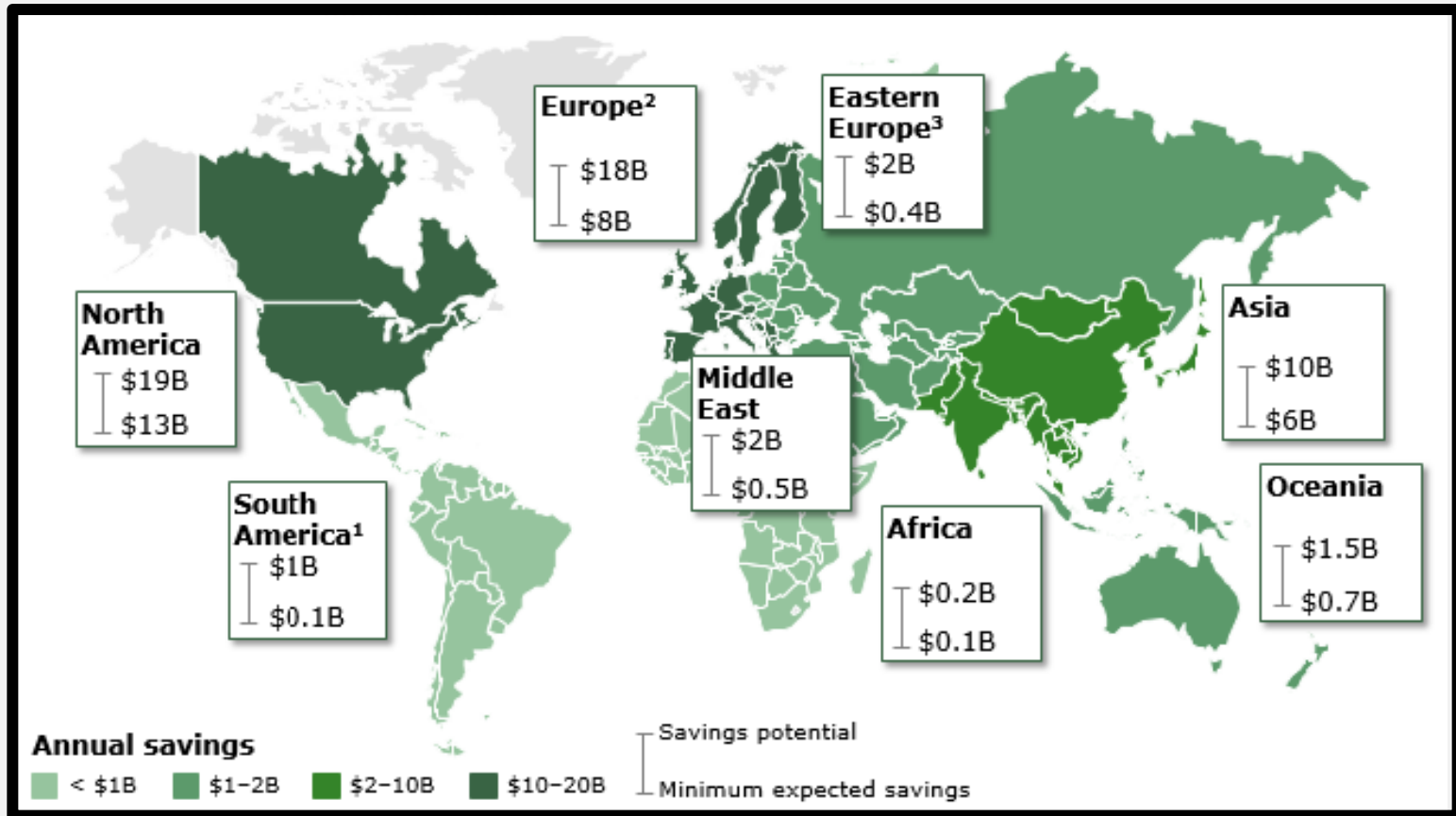
Evaluate the scope and scale of the potential gains of eGovernment enablement delivers.



...it's this much more

# Annual Savings

eGovernment yields \$30–50B annual savings by 2020,  
enabled by trusted digital identity



# Research Methodology

....

A global market model (Chart 2) was developed to quantify the potential administrative savings generated by eGovernment from on a worldwide basis.

**To achieve this, deep analysis was conducted to establish:**

The total number of government/citizen transactions in 2011 (baseline) digital transactional share in 2011 and the digital share growth rate curve to 2020 comparison of cost per analog transaction (adjusted by country-specific GDP/inflation figures) versus digital transaction cost figures to establish a regional/global differential cost-saving number (between \$2.80 and \$3.50 per transaction) the relative eGovernment readiness of reference countries to identify an appropriate digital transaction growth projection to 2020 an S-curve function to calculate digital transaction share growth to 2020, utilizing the UN eGovernment Readiness Index (see chart 2.1)

A complete breakdown of the criteria used to build this model is available at  
**[www.secureidentityalliance.org](http://www.secureidentityalliance.org).**



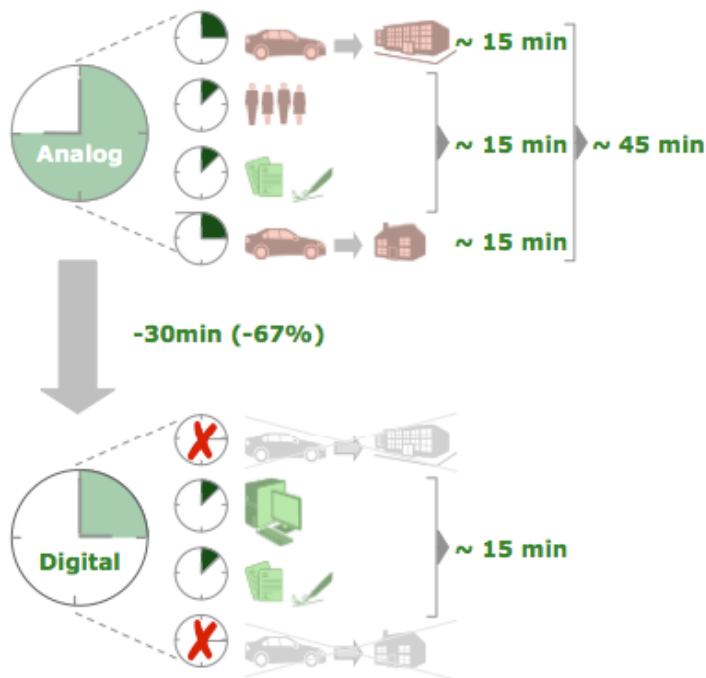
# Constant Digital Cost vs. Increasing Analog Cost

Digital transaction costs, comprising of IT/engineer labor, were assumed equal for all countries and kept constant at **\$0.5 - 0.7** to 2020 to reflect inflation (energy/labor) is neutralized by hardware price decreases.

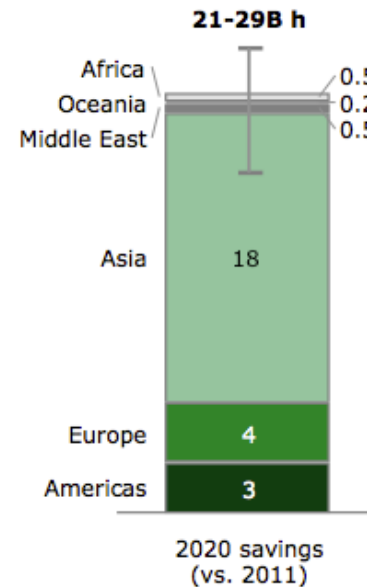
Analog processing costs, comprising primarily labor, were based on the projected 2011-2020 CAGR of individual reference country GDP.

# Estimated Time Savings Worldwide through Digitization

## Citizens save transport and waiting time for each digitized transaction

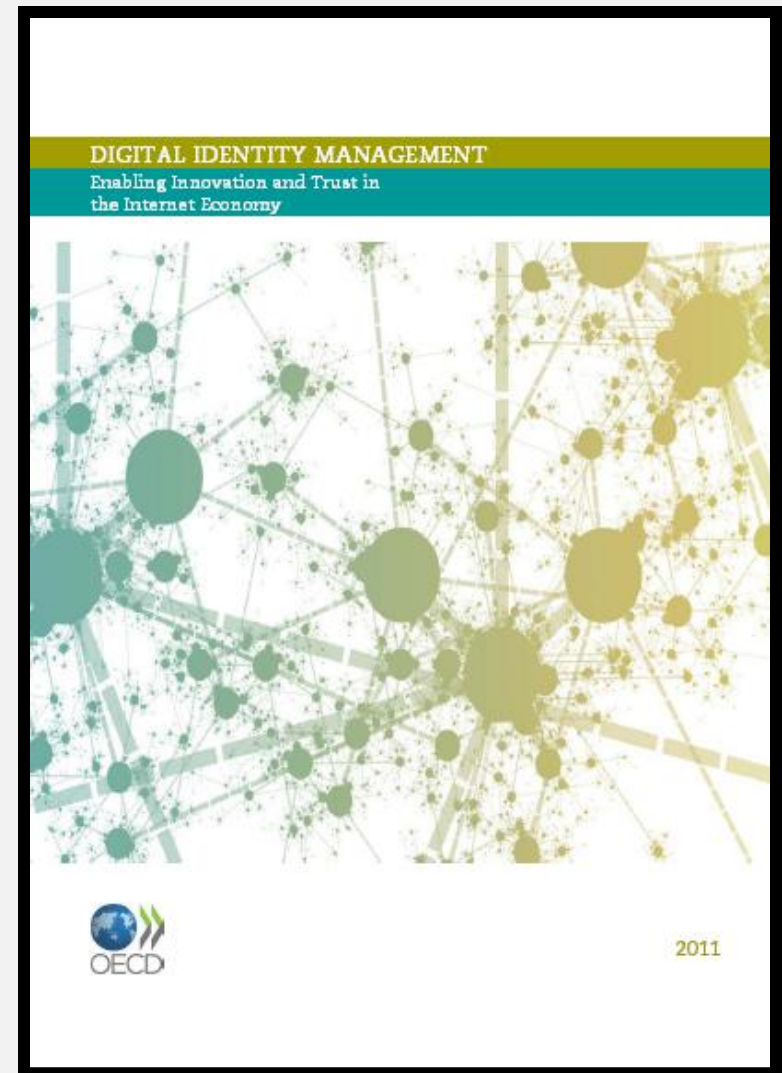


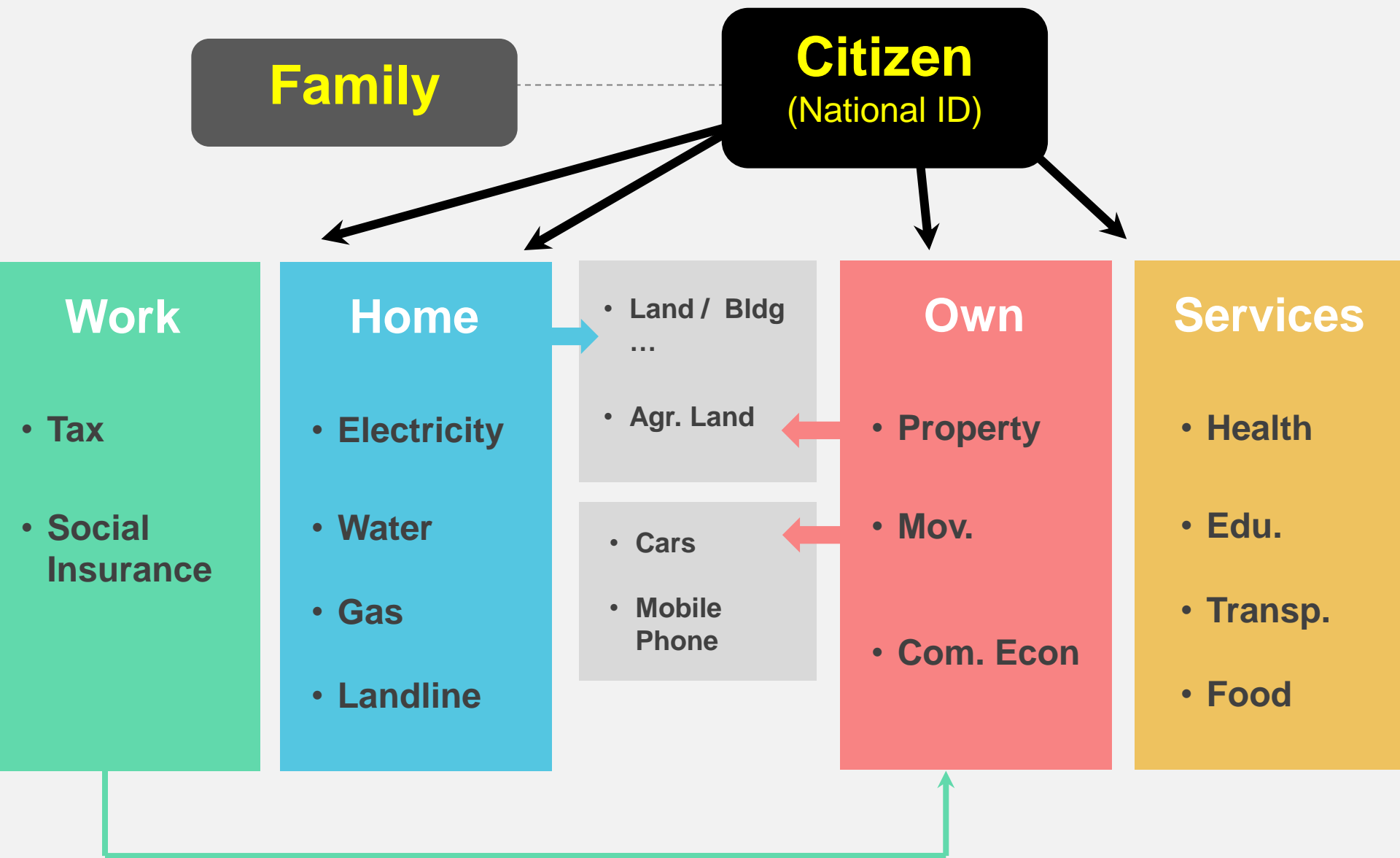
## Global annual time savings of 21-29B hours due to digitization of transactions



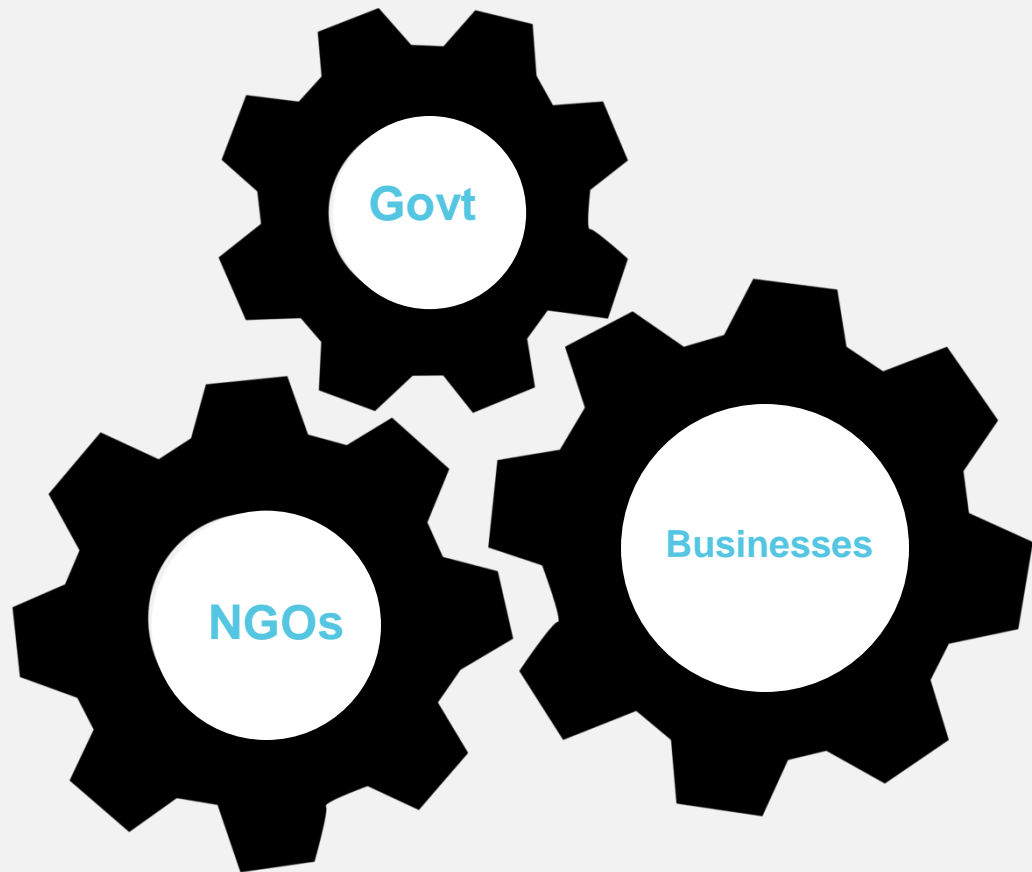
# Management

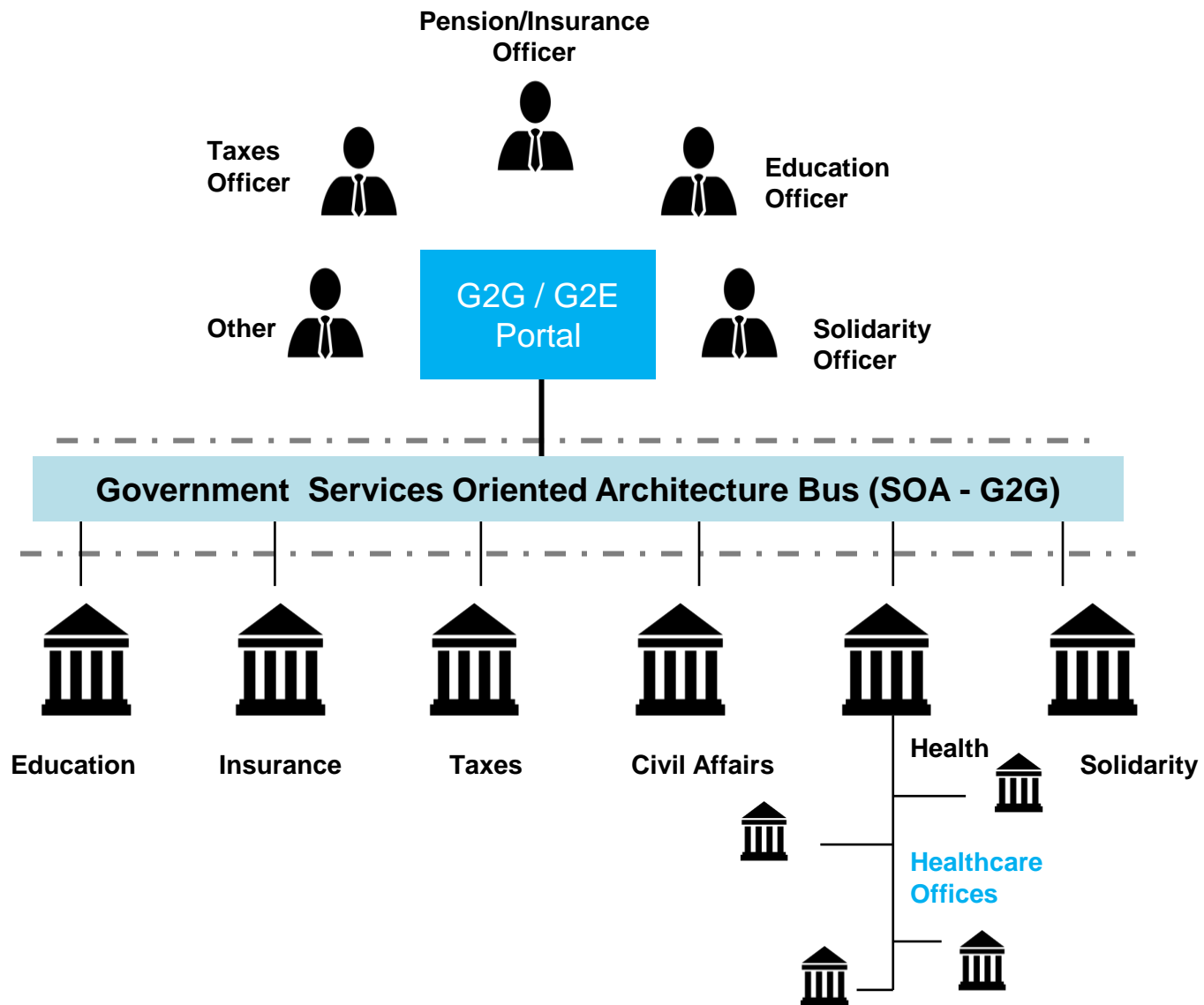
“Digital Identity  
Management of Natural  
Persons: Enabling  
Innovation and Trust in  
the Internet Economy”





# How to Latch to get Maximum Thrust ?







# Governance

## How to avoid Big Brother ?

### Distributed approach

No one can get hold of several pieces of information





# Second Generation

## Family Card

- Social Safety Nets is a major concern Egypt. Subsidy was 9% of the GDP until 4 years ago and was getting as high as 15% last year
- 14 Million families (4 Quintiles of Society !!)
- EMV Sim-based card
- Capable of carrying 8 applications
- Currently
  - Grocery
  - cash payments





# Coming Up



Health services



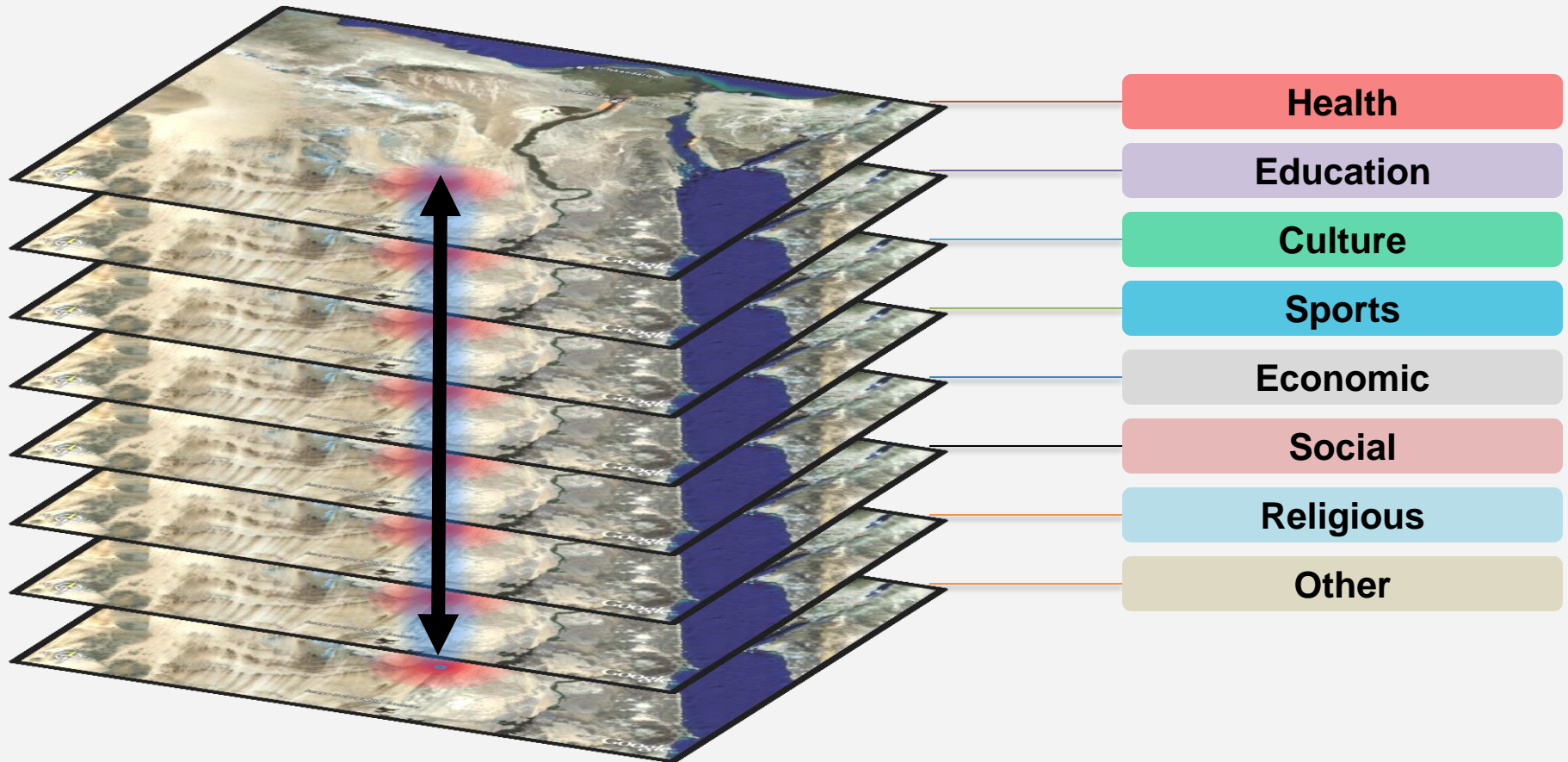
Energy

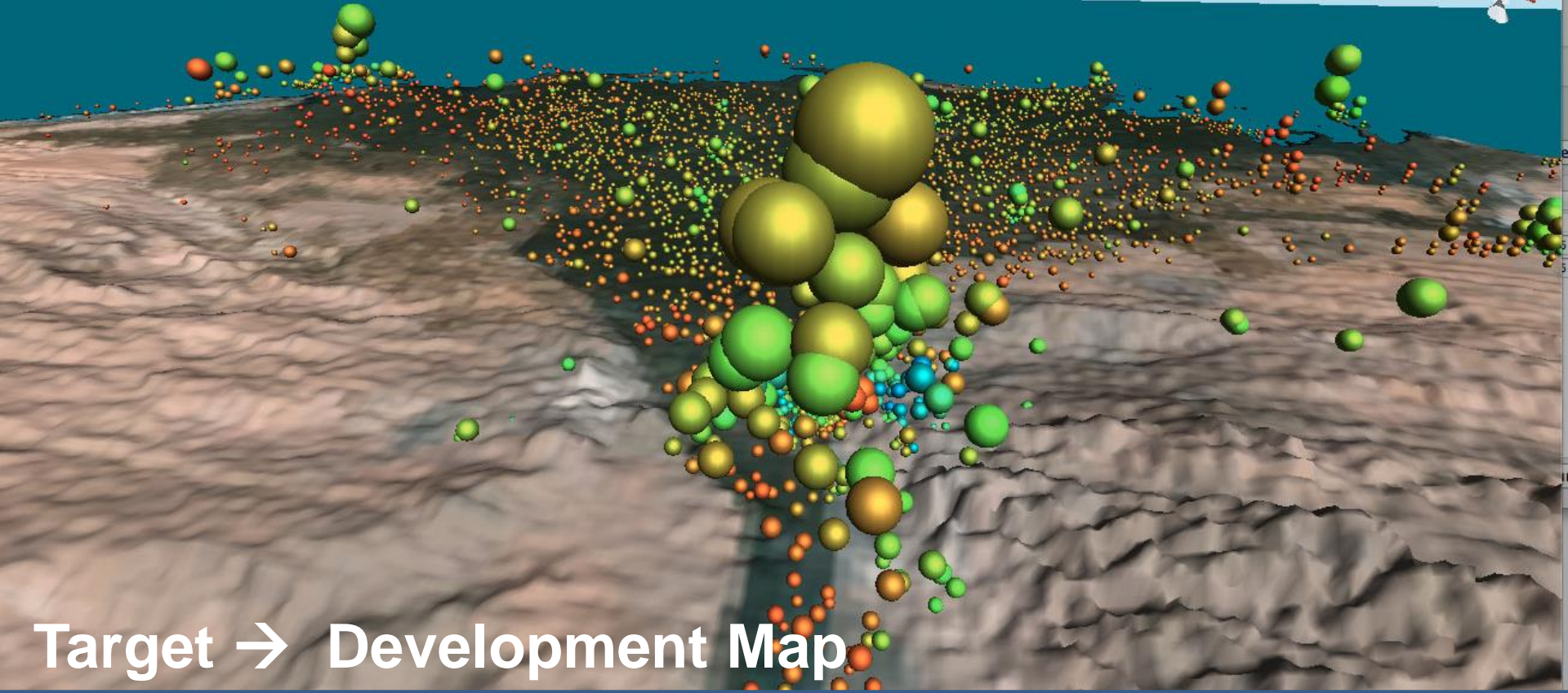


Transportation

...

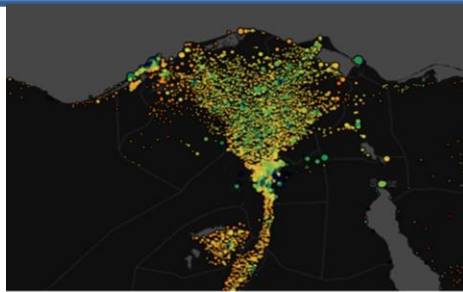
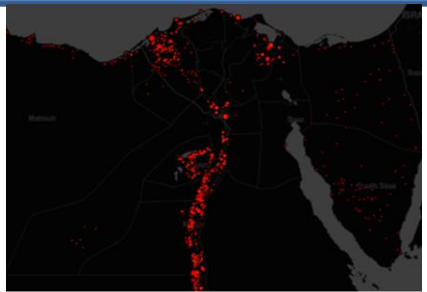
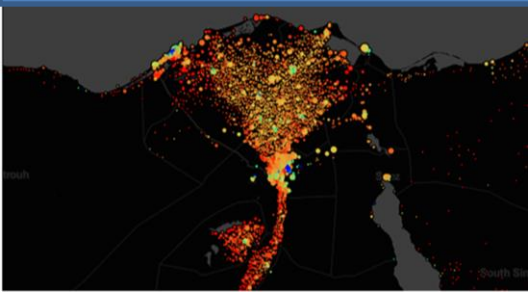
# Geo Data



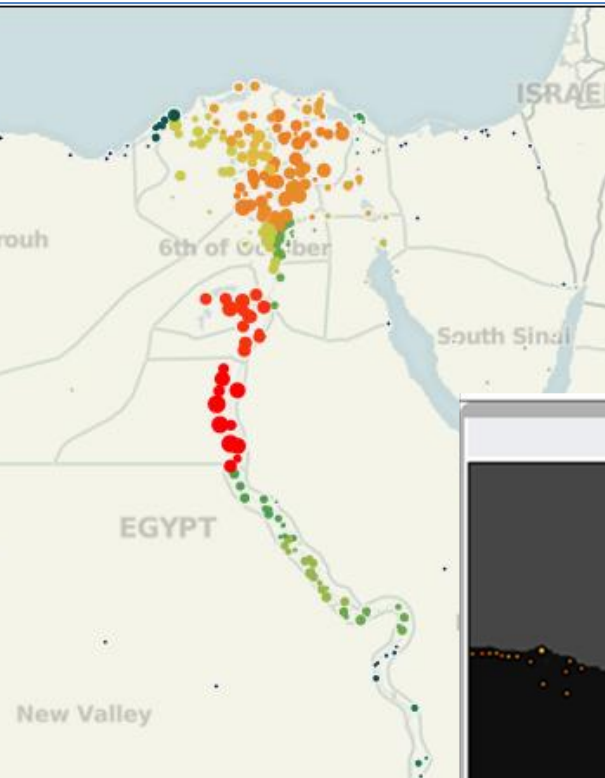


**Endless Possibilities**  
**Optimum Decision making**

**Citizen  
Satisfaction**







# Thank you

ahmed@amdarwish.com