SMART GOVERNMENT NEEDS SMART NETWORK
Uses Cases

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Every success has its network

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Every success
has its network

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A. BACALL

"Your proposal is innovative. Unfortunately, we won't be able to use it because we've never tried something like this before."

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Today's connected, hypercompetitive global economy offers opportunities and disparities

Today,

43%
of world population
have access to...

2.5 Trillion
digital data items
created worldwide each day.

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Today's connected, hypercompetitive global economy offers opportunities and disparities
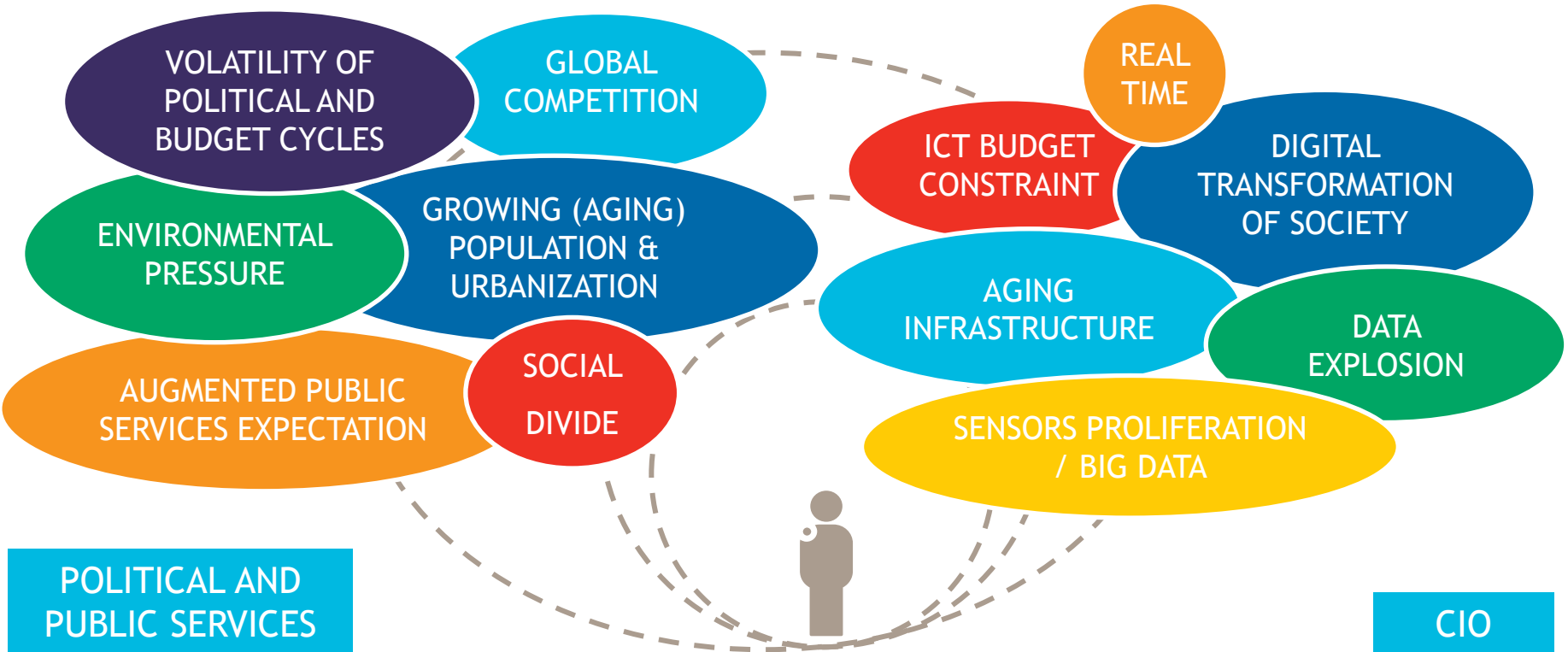
By 2017, still only
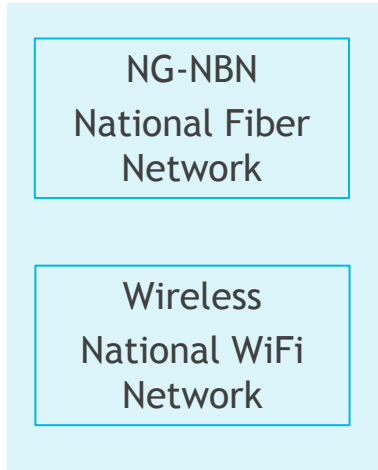
50%
of world population have access to...

25 Trillion
digital data items created worldwide each day.

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Governments, Administrations And City Challenges

VOLATILITY OF POLITICAL AND BUDGET CYCLES

GLOBAL COMPETITION

REAL TIME

ICT BUDGET CONSTRAINT

DIGITAL TRANSFORMATION OF SOCIETY

ENVIRONMENTAL PRESSURE

GROWING (AGING) POPULATION & URBANIZATION

AGING INFRASTRUCTURE

DATA EXPLOSION

AUGMENTED PUBLIC SERVICES EXPECTATION

SOCIAL DIVIDE

SENSORS PROLIFERATION / BIG DATA

POLITICAL AND PUBLIC SERVICES

CIO

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Use Case: Singapore "Smart Nation" initiative
Anticipation, Vision and Execution

Past

NG-NBN National Fiber Network

Wireless National WiFi Network

In Progress

COLLECT & COMPREHEND

Deploy an "operating system" accessible by all stakeholders

CONNECT

Deploy sensors using Above Ground Boxes for electricity & connectivity

Generalized Heterogeneous Network to boost Citizen Quality of Services

Future

Position Singapore as a regional Digital Harbor to drive economic growth.
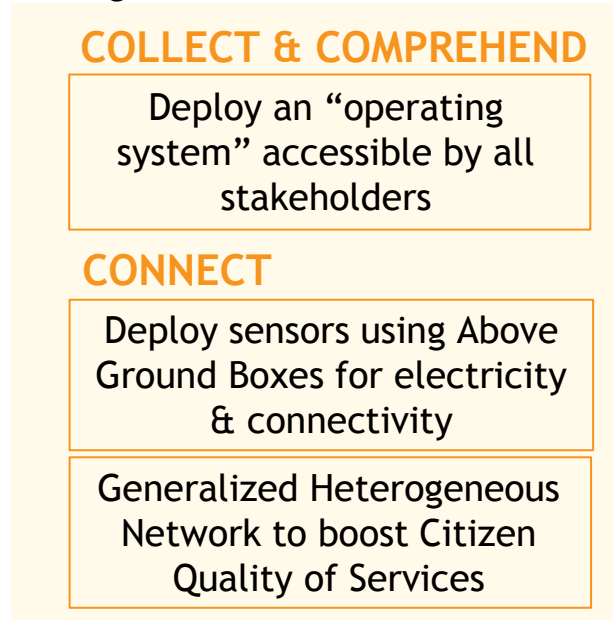
Singapore Government ICT Investment

in BSGD (1SGD = 0.65Euro)

Year	Value
2009	1,73
2010	1,1
2011	1,1
2012	1,2
2013	1,2
2014	1,2
2015F	1,3
2016F	1,8

Source: IDA 2014

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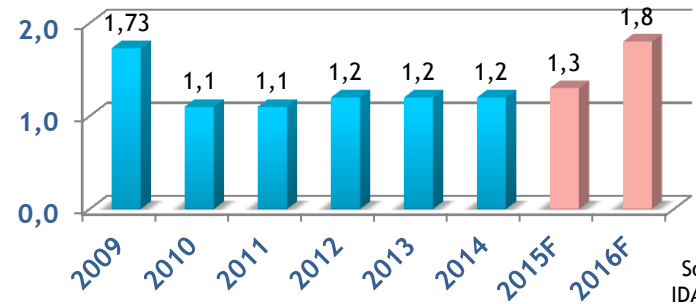
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Use Case: Amsterdam
Connected Street Furniture

CO-SOLUTION ALCATEL-LUCENT AND JCDECAUX TO SPEED UP THE ROLL-OUT OF CONNECTED STREET FURNITURE

- Integration of Alcatel-Lucent Small Cells into street furniture developed by JCDecaux to improve connectivity in the city

- Creation of an ecosystem capable of further improving the quality of service provided to users and citizens
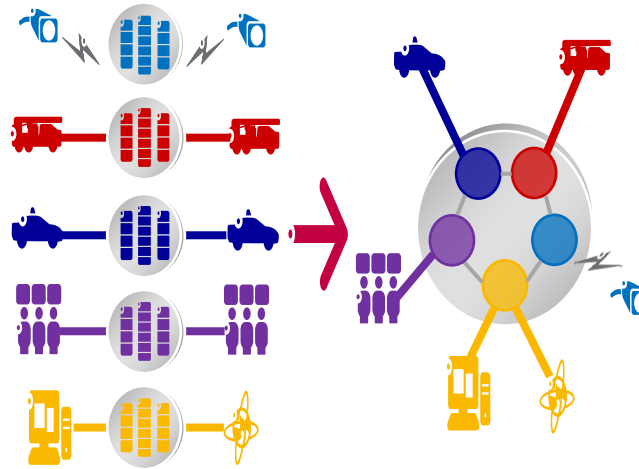
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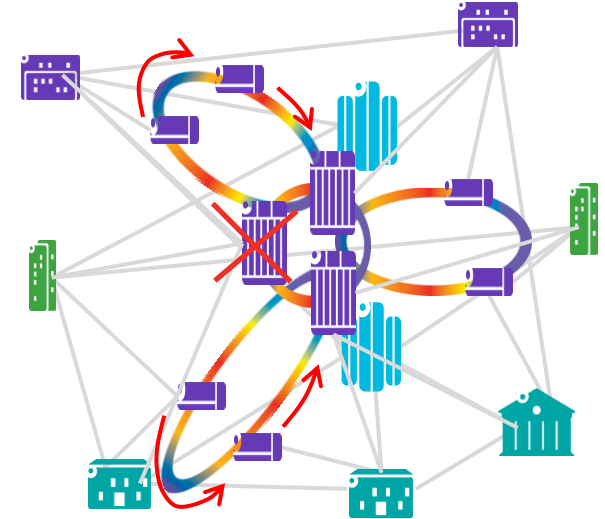# Use Case: The City of Calgary Administration network modernization
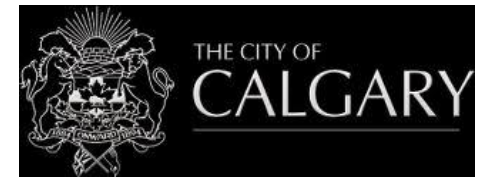
Challenges
- Capacity scarcity
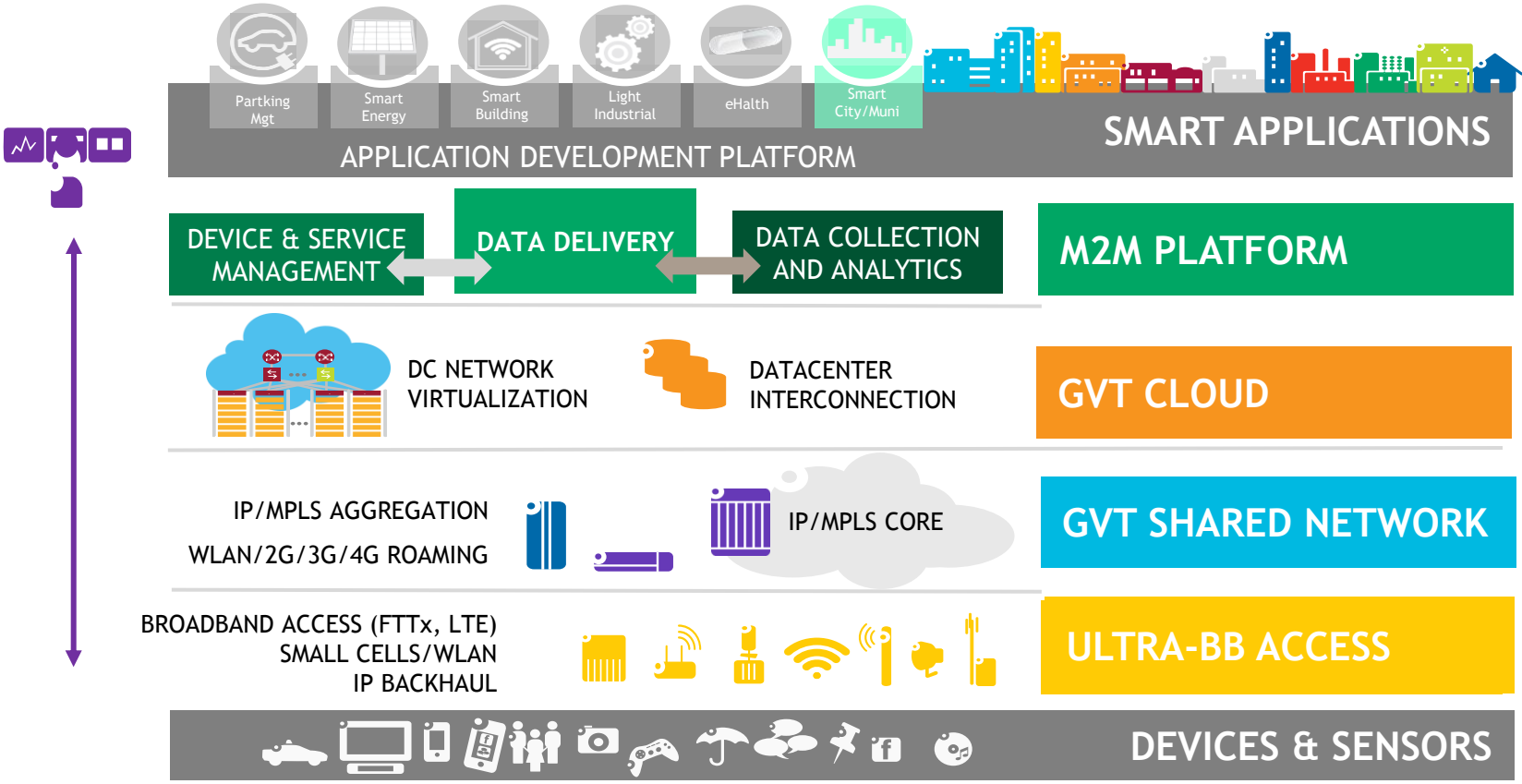- Cumbersome service provisioning
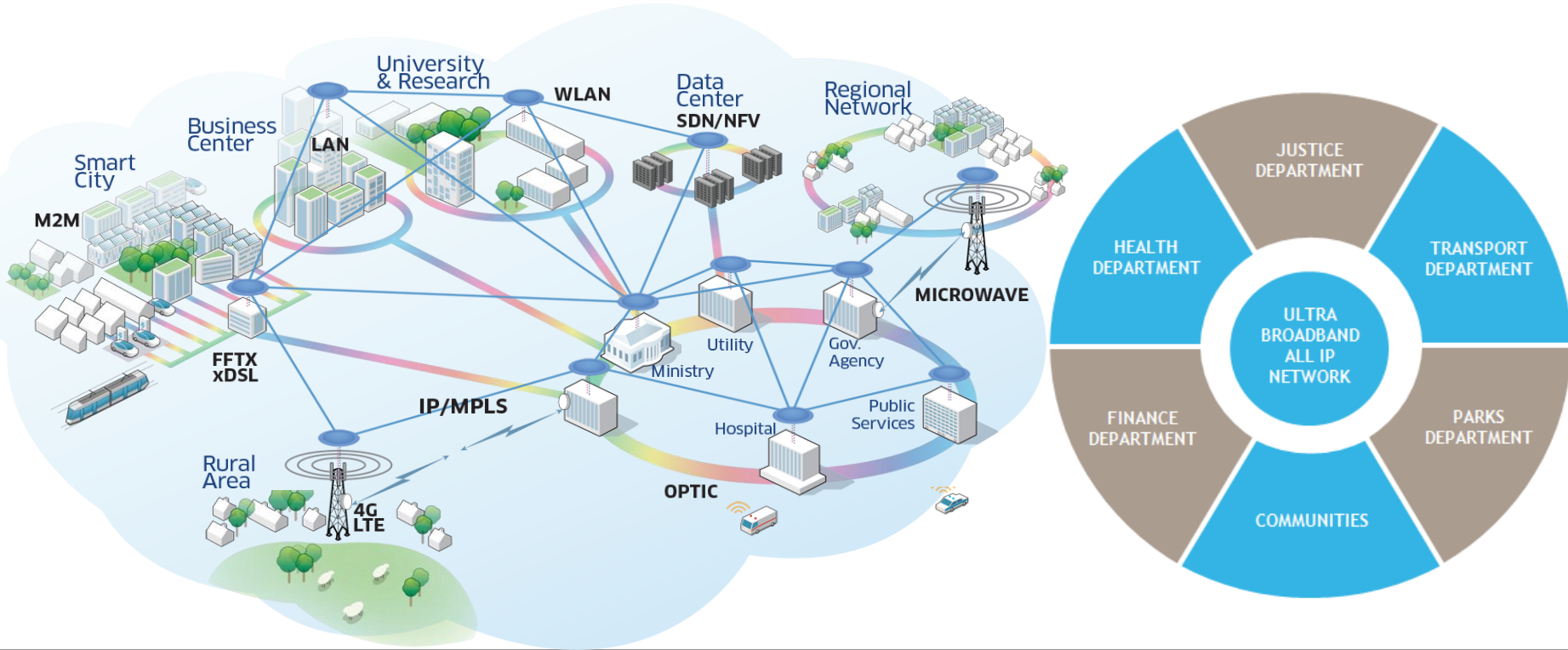- Operational Costs

CONVERGED NETWORK

FLEXIBILITY AND RESILIENCY

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ICT Government Layers & Components

						SMART APPLICATIONS
Partking Mgt	Smart Energy	Smart Building	Light Industrial	eHalth	Smart City/Muni	

APPLICATION DEVELOPMENT PLATFORM

DEVICE & SERVICE MANAGEMENT — **DATA DELIVERY** — **DATA COLLECTION AND ANALYTICS** — **M2M PLATFORM**

DC NETWORK VIRTUALIZATION — DATACENTER INTERCONNECTION — **GVT CLOUD**

IP/MPLS AGGREGATION — WLAN/2G/3G/4G ROAMING — IP/MPLS CORE — **GVT SHARED NETWORK**

BROADBAND ACCESS (FTTx, LTE) — SMALL CELLS/WLAN — IP BACKHAUL — **ULTRA-BB ACCESS**

DEVICES & SENSORS

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ICT Government Network
Services Oriented Architecture (SOA) ready

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New Model, New Roles for Government
Offering vast possibilities for innovation and new business

- Create new channels for citizen engagement
- **Leverage informal channels**

BE A PROMOTER/SPONSOR

BE AN INTEGRATOR

Public Service Delivery

BE A MATCHMAKER

BE A TRANSLATOR/TEACHER

- Canvas the globe for best practices
- **Match people to projects, leverage community talent, develop champions**
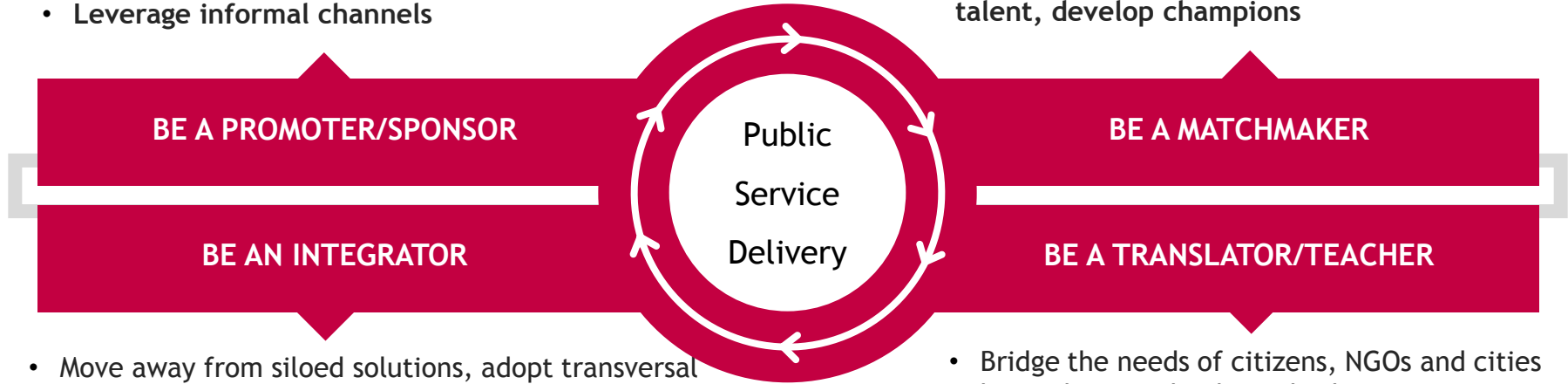
- Move away from siloed solutions, adopt transversal implementation
- **Plan for scalability, deliver better cost savings and benefits**

- Bridge the needs of citizens, NGOs and cities by applying technological solutions to everyday needs
- **Educate and train to overcome fears**

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