

# Public Sector Innovation for Open Government

Dimitris Gouscos ([gouscos@media.uoa.gr](mailto:gouscos@media.uoa.gr))

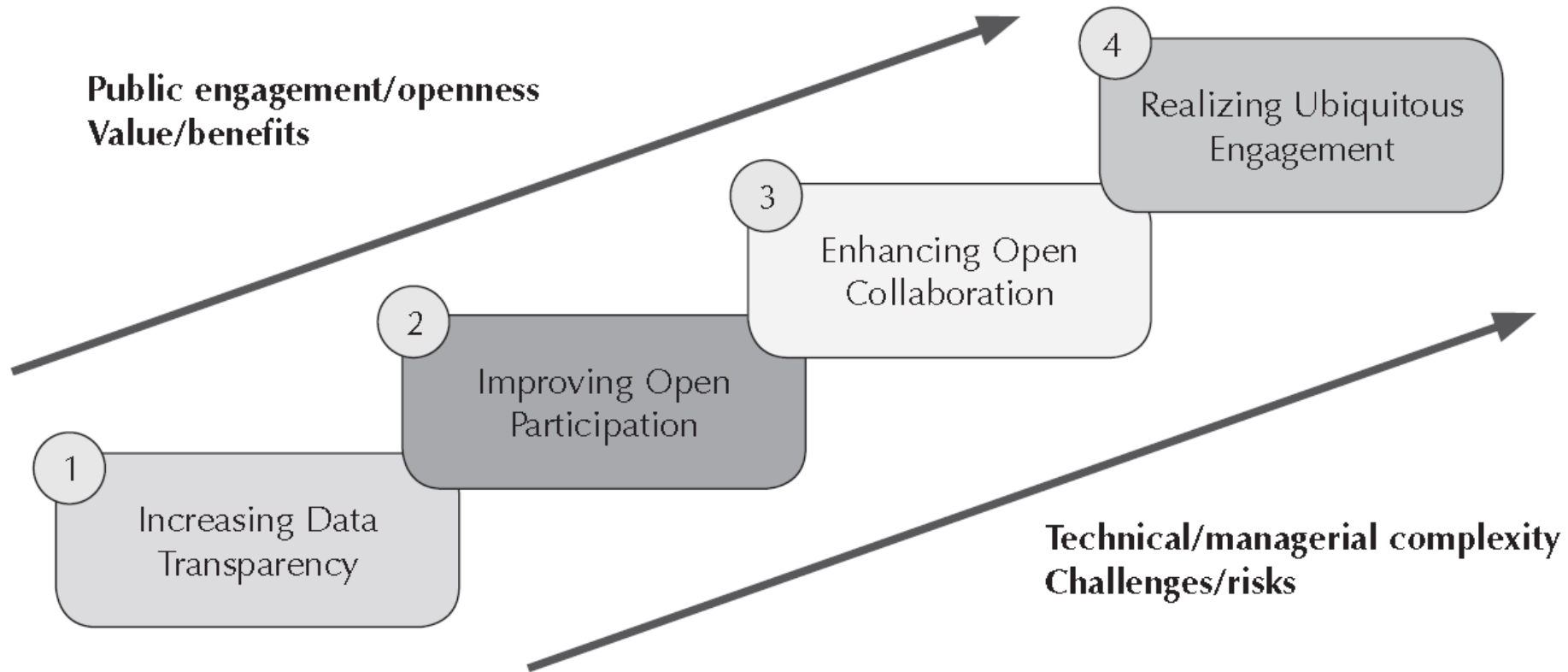
Regional Workshop on Open Government and Emerging Technologies  
in the Arab Region

*organized by UN ESCWA under the Patronage of Her Excellency, the Minister of  
State for Administrative Reform in Lebanon, Dr. May Chediac*

Beirut, Lebanon, July 2019

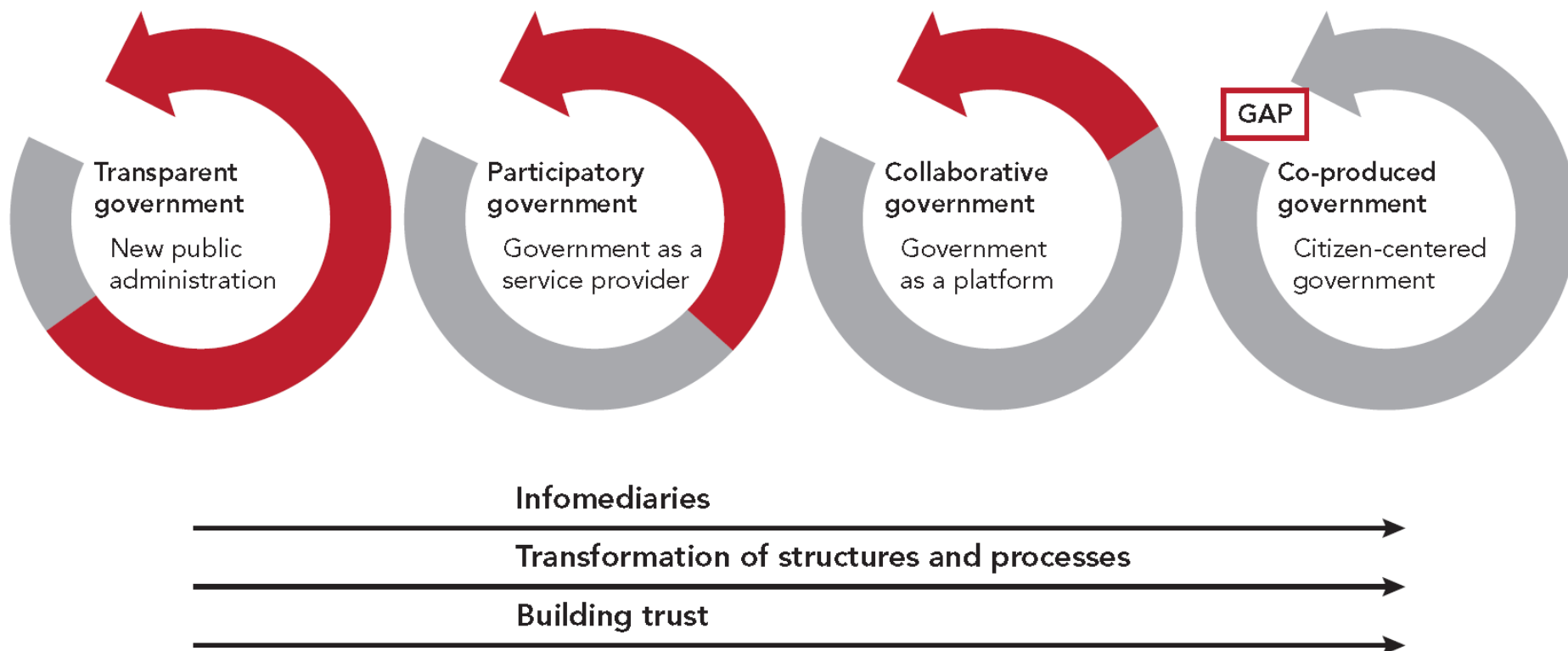
on open government, public sector innovation, and models

# work on open government : implementation models



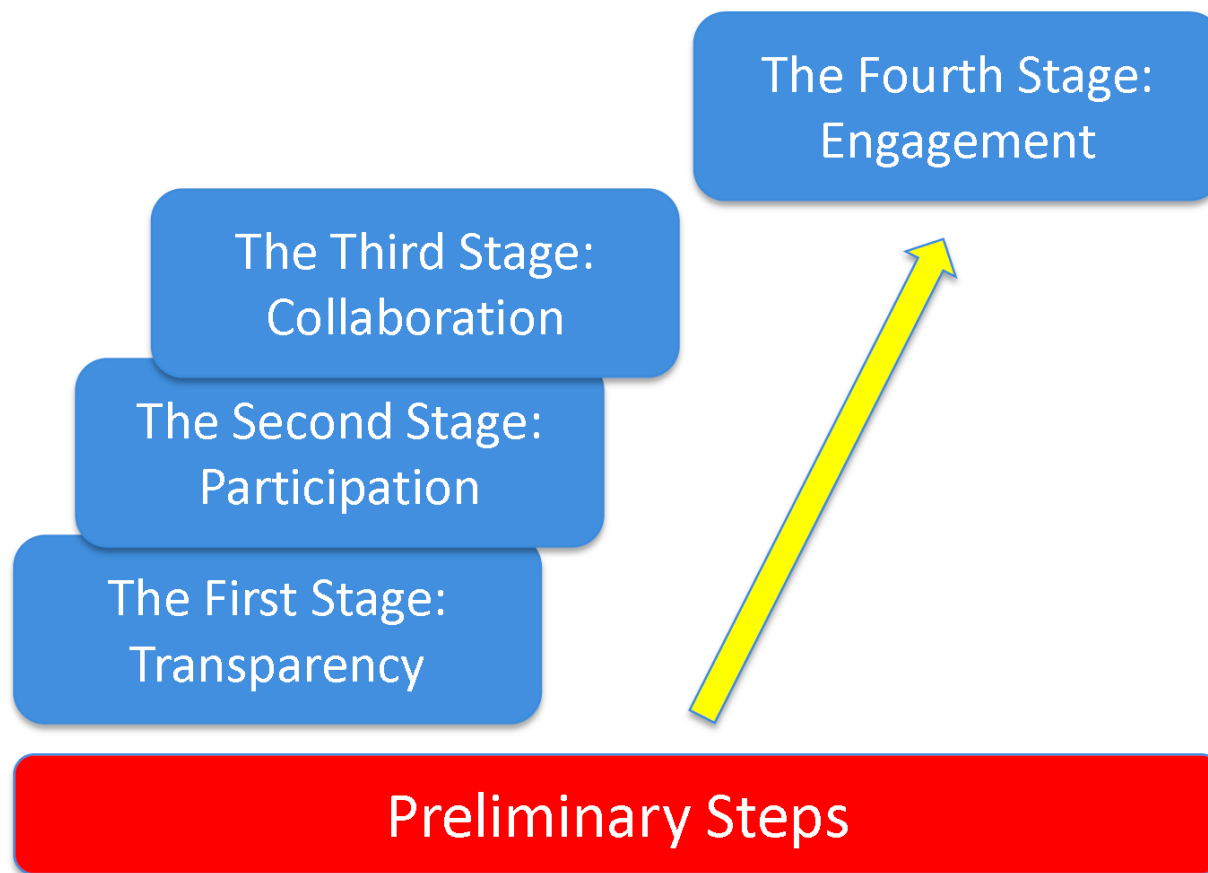
[ source: Open Government Implementation Model (OGIM), reprinted from Lee, Gwanhoo and Kwak, Young Hoon (2011). An open government implementation model: moving to increased public engagement. Washington, D.C.: IBM Center for the Business of Government, <http://www.businessofgovernment.org/report/open-government-implementation-model-moving-increased-public-engagement> ]

# work on open government : implementation models



[ source: The Loch Ness Model: Process, reprinted from Gigler, B. and others (2014). The Loch Ness Model: Can ICTs Bridge the Accountability Gap?. Washington, D.C.: World Bank, <https://openknowledge.worldbank.org/handle/10986/20113?locale-attribute=fr> ]

# work on open government : implementation models



[ source: UN ESCWA Four-Phased Framework, reprinted from Mounahed, M.B. and Idlebi, N. (2017). Policy Framework for Strengthening Open Government in the Arab Countries, <https://www.unescwa.org/sites/www.unescwa.org/files/events/files/idlebi-munajed-escwa-open-government-framework-en.pdf> ]

# why do we need an implementation model ?

open government is a systemic change

who can succeed ? the entire system, only

who can fail ? each and every part

interdependencies of action make things intertwined

interdependencies of knowledge make things intertwined

# intertwingularity

## Intertwingularity

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**Intertwingularity** is a term coined by Ted Nelson to express the complexity of interrelations in human knowledge.

Nelson wrote in *Computer Lib/Dream Machines* (Nelson 1974, p. DM45): "EVERYTHING IS DEEPLY INTERTWINGLED. In an important sense there are no "subjects" at all; there is only all knowledge, since the cross-connections among the myriad topics of this world simply cannot be divided up neatly."<sup>[1]</sup>

He added the following comment in the revised edition (Nelson 1987, p. DM31): "Hierarchical and sequential structures, especially popular since Gutenberg, are usually forced and artificial. Intertwingularity is not generally acknowledged—people keep pretending they can make things hierarchical, categorizable and sequential when they can't."<sup>[2]</sup>

Intertwingularity is related to Nelson's coining of the term hypertext, partially inspired by "As We May Think" (1945) by Vannevar Bush.<sup>[3]</sup>

## **so why do we need an implementation model ?**

in order not to see things as knots

in order to have a point to start from

in order to have a direction to proceed

in order to have a sense of what comes next

in order to monitor progress

in order to avoid management panic

in order to not make things as knots



## do we need strict models ?

no size fits all

culture cannot be overstressed

minimum prescriptiveness, not the opposite

agility

# work on public sector innovation : an oxymoron ?

WHY APOLITICAL PARTNER WITH US TEAM WORK WITH US CONTACT

apolitical

Search for the policies and people you need

Explore Policy Solutions

Connect With People

Invite

DG



I said I work in public sector innovation. “Isn’t that an oxymoron?” he replied

Opinion: Public servants are doing great things — they need to shout louder about them

[ source: [https://apolitical.co/solution\\_article/i-said-i-work-in-public-sector-innovation-isnt-that-an-oxymoron-he-replied/](https://apolitical.co/solution_article/i-said-i-work-in-public-sector-innovation-isnt-that-an-oxymoron-he-replied/) ]

# work on public sector innovation : not an oxymoron ...

VIC.GOV.AU

Information and services ▾

About the VIC Government ▾



Home > Promoting and supporting innovation in the public sector

## Promoting and supporting innovation in the public sector

We're helping the government to work in new ways to support Victorians. Our services enable and accelerate innovation within the Victorian public sector.

# work on public sector innovation : a guideline

## Guideline on Fostering Innovation in the Public Sector of the Arab Region



Innovation in the public sector helps to enhance social welfare, economic growth and environmental management of countries for better sustainable futures, by stimulating new ideas – whether products, services, policies, programmes, or processes.



The guideline focuses on innovation in the public sector providing various types and examples to help governments, public institutions and agencies galvanise innovation. The study goes further, providing several models designed to serve as aides in the selection, design and implementation of innovation practices and initiatives by Arab public sectors.

In the annexes readers will also find a wealth of information designed to further inform and foster public sector innovation among public sector officials and those interested in the subject.

There is also a two-volume reference guide to the study. Volume I provides references to various types of resources on public sector information, with an introductory model on how to identify resources. Volume II is a compendium of ICT tools and technologies that can aid in the development and implementation of public sector innovation initiatives.

## **again, why do we need an implementation model ?**

public sector innovation is a change of a system with intertwined parts

innovation calls for newness : offering new services or improvements over existing ones in new ways

what is new ?

sth that is not old, sth that does not exist already

new in our own context, new globally, new glocally

## **again, why do we need an implementation model ?**

local newness calls for porting ideas from elsewhere

glocal newness call for glocally new thinking

thinking out-of-the-box

what is the box ?

where is the box ?

is the box around us, is the box inside us, is the box us ?

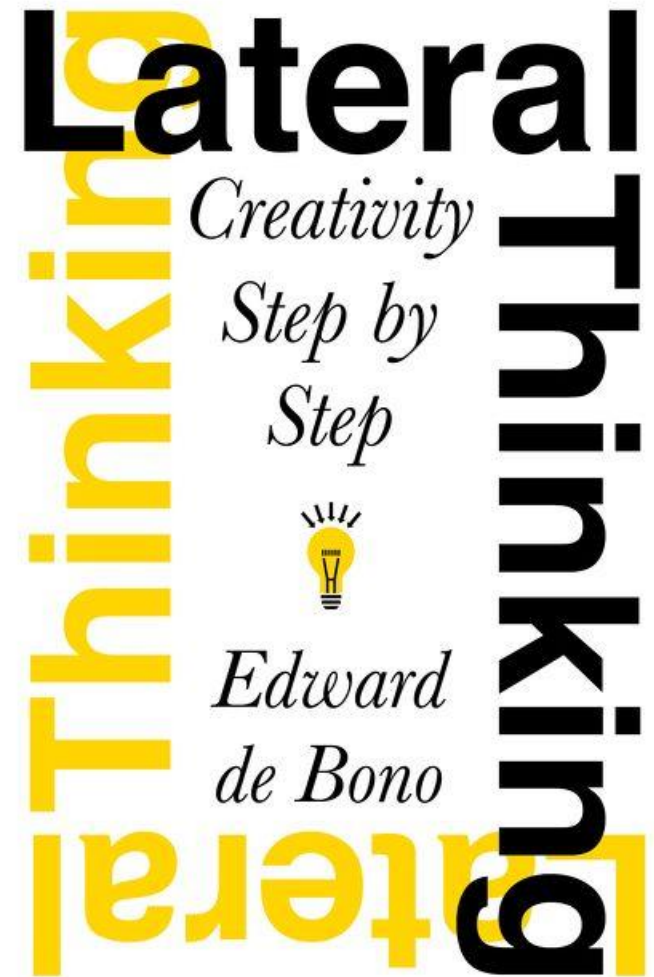
lateral, rather than vertical, thinking

# can new thinking be modelled ?

**Lateral thinking** is a manner of solving problems using an indirect and creative approach via reasoning that is not immediately obvious. It involves ideas that may not be obtainable using only traditional step-by-step logic.<sup>[1]</sup>

The term was promulgated in 1967 by Edward de Bono. He cites the Judgment of Solomon as an example, where King Solomon resolves a dispute over the parentage of a child by calling for the child to be cut in half, and making his judgment according to the reactions that this order receives.<sup>[2]</sup> Edward de Bono also links lateral thinking with humour, arguing there's a switch-over from a familiar pattern to a new, unexpected one. It is this moment of surprise, generating laughter and new insight, which facilitates the ability to see a different thought pattern which initially was not obvious.<sup>[3]</sup>

According to de Bono, lateral thinking deliberately distances itself from the standard perception of creativity as "vertical" logic (the classic method for problem solving).





# can new thinking be led by people ?

PEOPLE-LED INNOVATION  
STEP-BY-STEP GUIDE

DEFINE

IDEATE

EXPERIMENT

EXPAND

WALKING THE TALK

People-Led Innovation at  
GovLab and Bertelsmann  
Foundation

READ MORE

[ source: <https://www.peopleledinnovation.org/#/> ]



**then, do we need strict models ?**

out-of-the-box thinking cannot be fully prescribed  
(the opposite would be an oxymoron ...)

yet, bringing out-of-the-box ideas into in-the-box  
implementations calls for much more structure

the box needs to become open, but remain structured

just like open government needs to become open, but  
remain structured

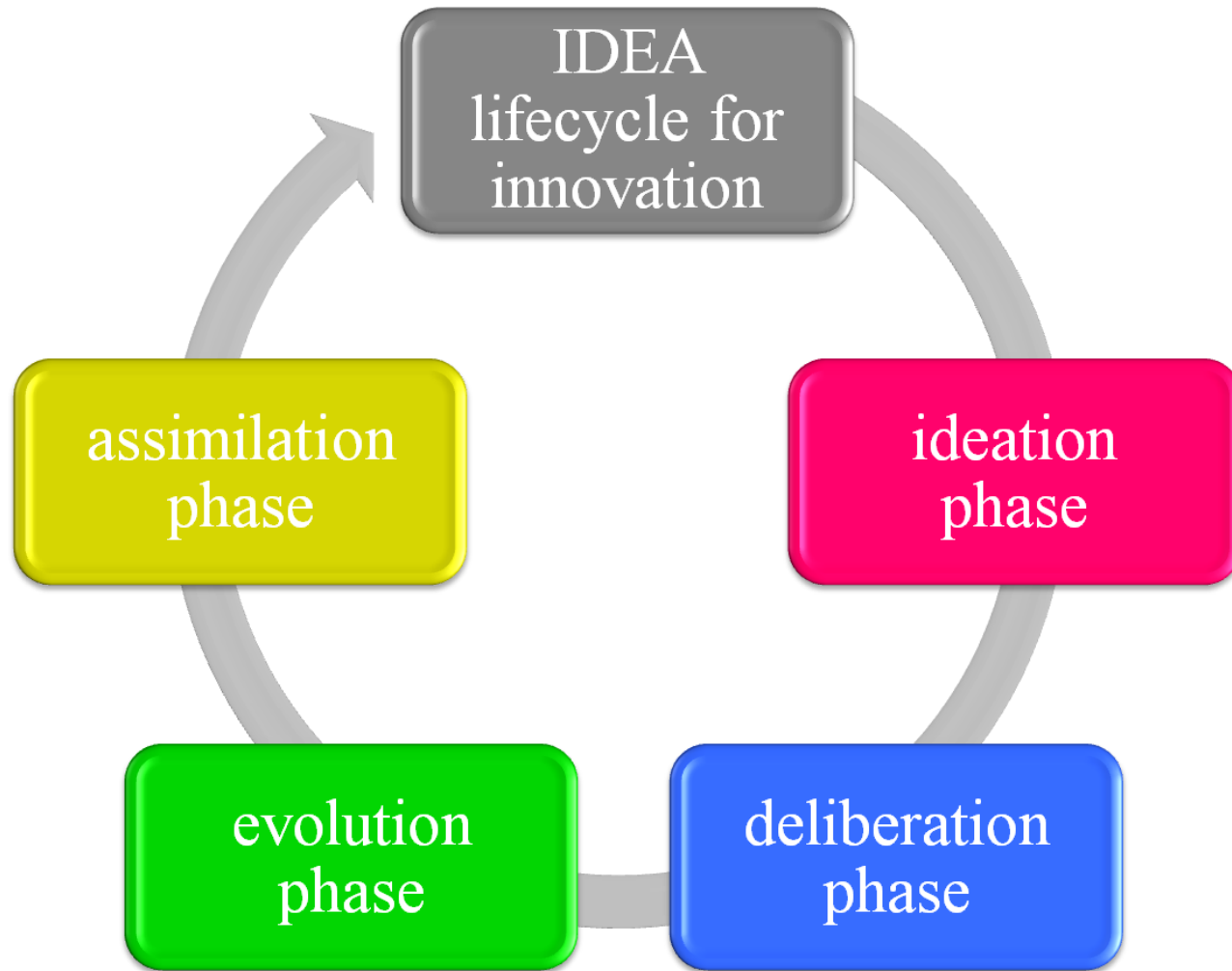
# can public sector innovation serve open government ?

innovation, in the sense of offering new services or improvements over existing ones in new ways, that contribute to

- more transparent government
- more accountable government
- participation for more effective government

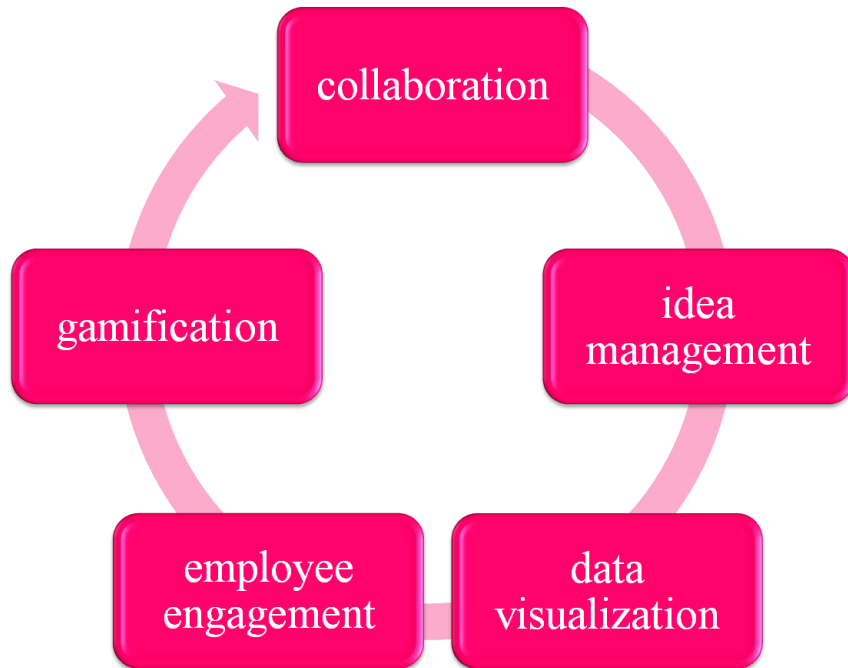
a lifecycle for public sector innovation efforts

# the IDEA lifecycle



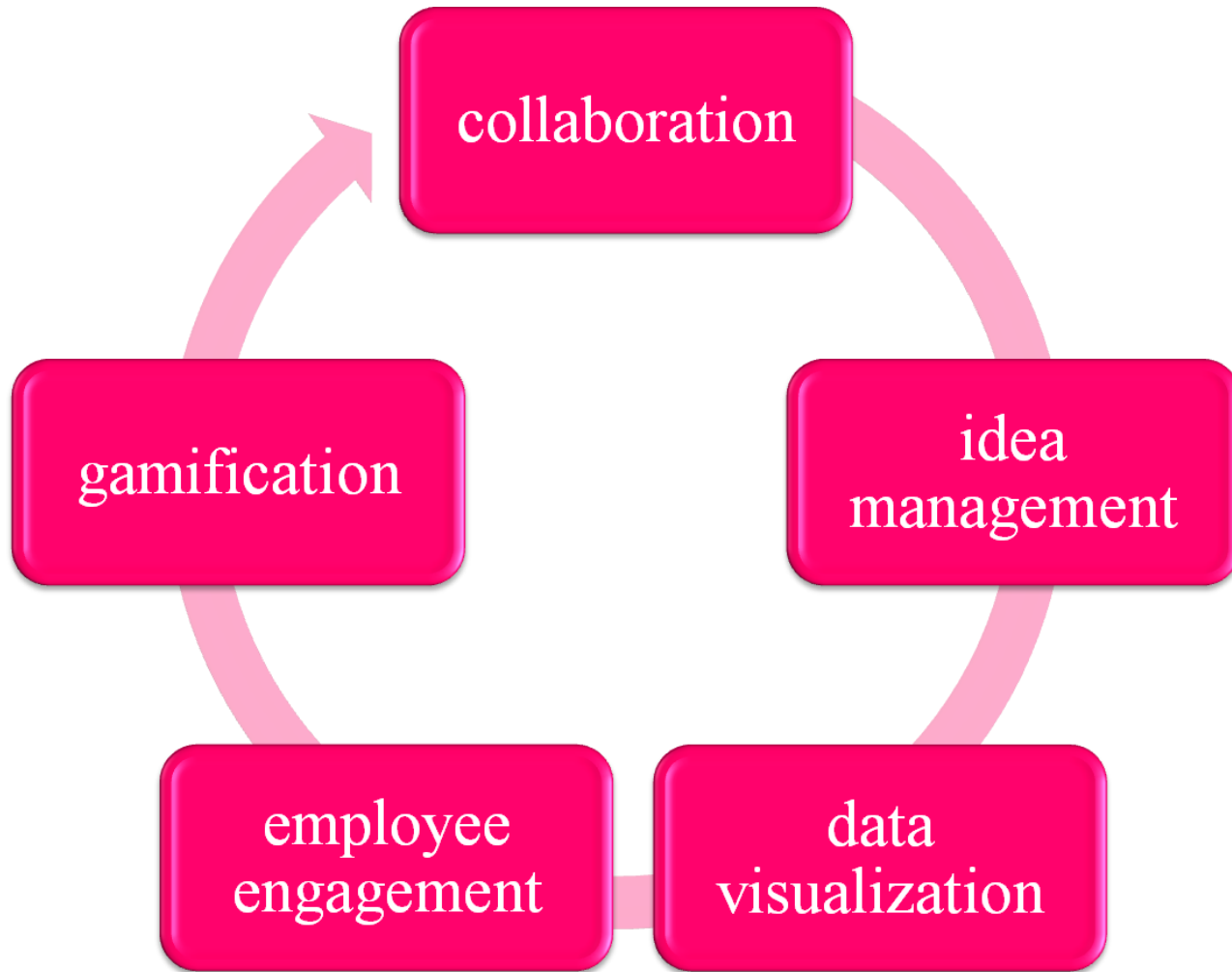
[ source: The IDEA Lifecycle for Public Sector Innovation, UN ESCWA Guideline on Fostering Innovation in the Public Sectors of the Arab Region, [https://www.unescwa.org/sites/www.unescwa.org/files/page\\_attachments/guideline-public-sector-innovation-arab-region-en-chapter3.pdf](https://www.unescwa.org/sites/www.unescwa.org/files/page_attachments/guideline-public-sector-innovation-arab-region-en-chapter3.pdf) ]

# IDEA lifecycle Ideation Phase

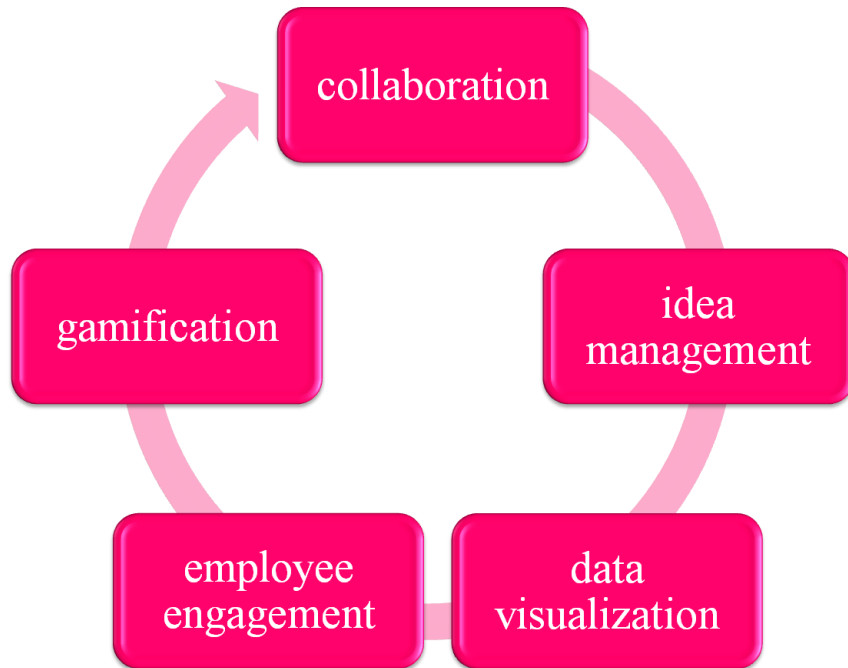


have the internal stakeholders of the public sector generate ideas for innovation, grounded not just on the potential to innovate, but on actual needs of the public sector for bringing forward positive change

# IDEA lifecycle Ideation Phase



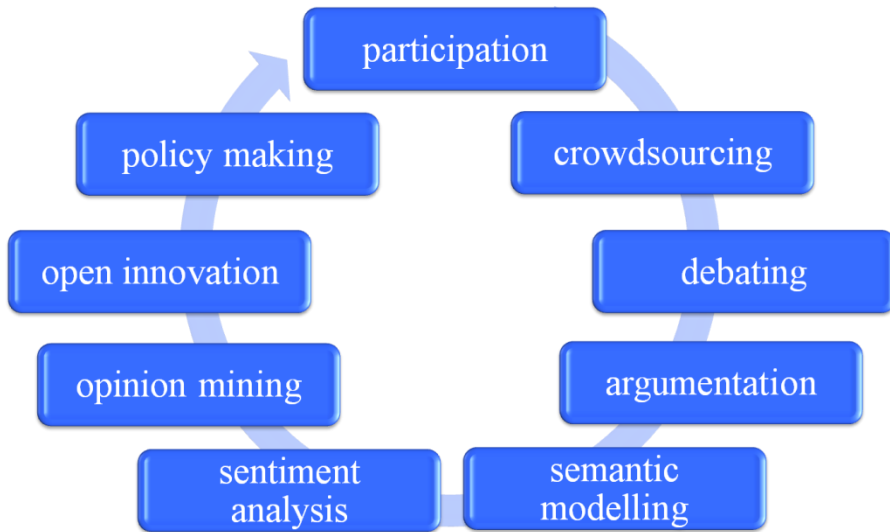
# IDEA lifecycle Ideation Phase



all activities recommended at first time, some may be omitted in iterations, Collaboration always recommended

no strict waterfall, overlaps and re-orderings are possible

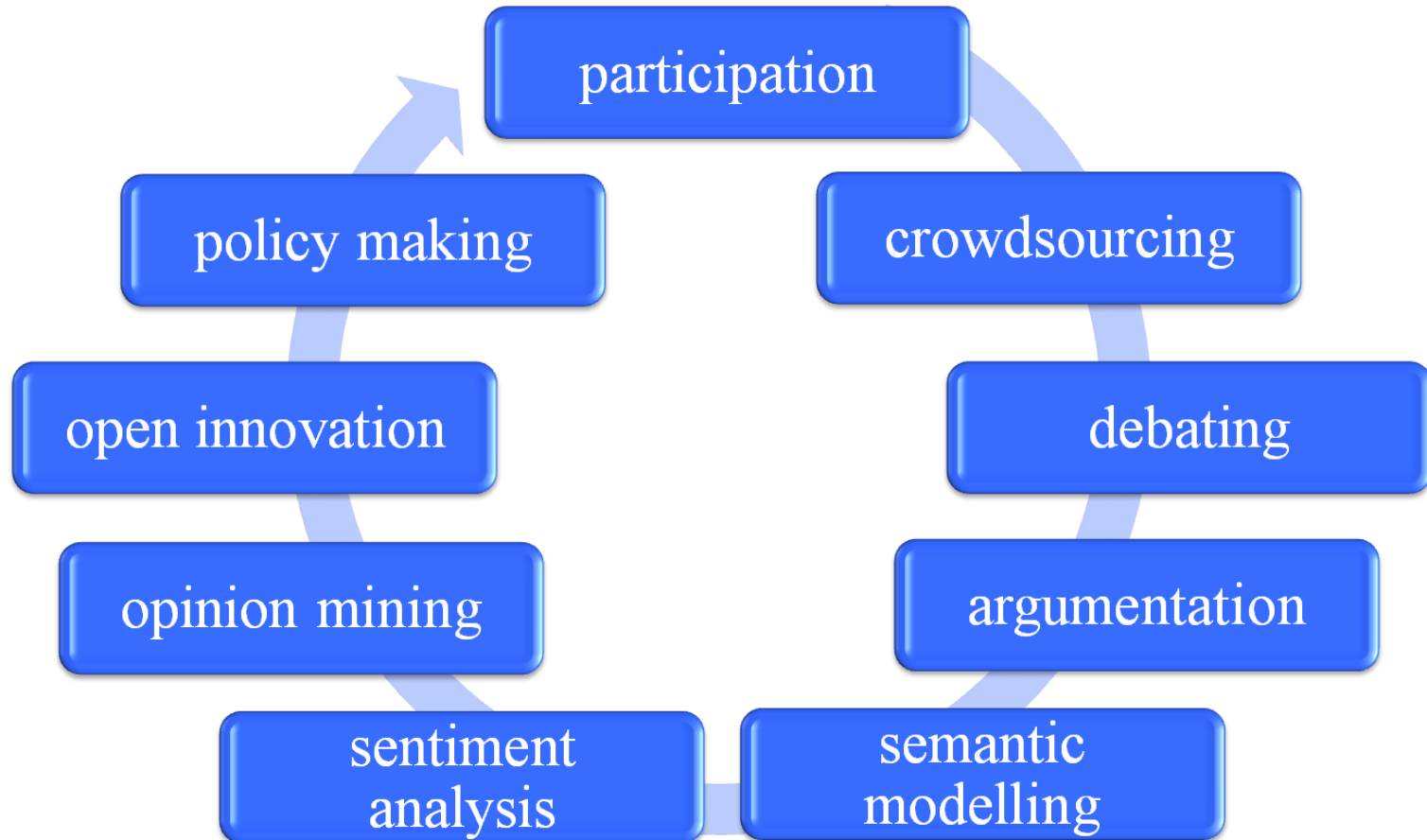
# IDEA lifecycle Deliberation Phase



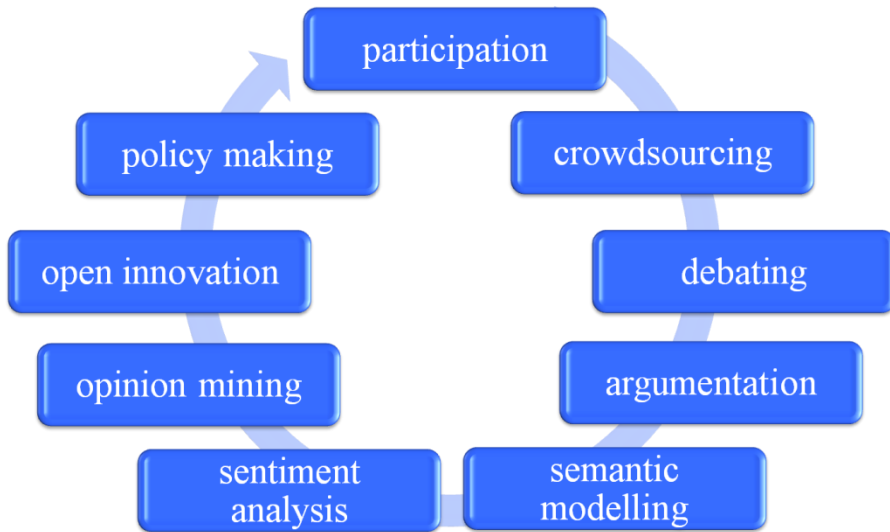
have the internal stakeholders of the public sector reach out to external stakeholders pertinent to the innovation proposals that have been generated, and encourage them to deliberate over the latter



# IDEA lifecycle Deliberation Phase



# IDEA lifecycle Deliberation Phase

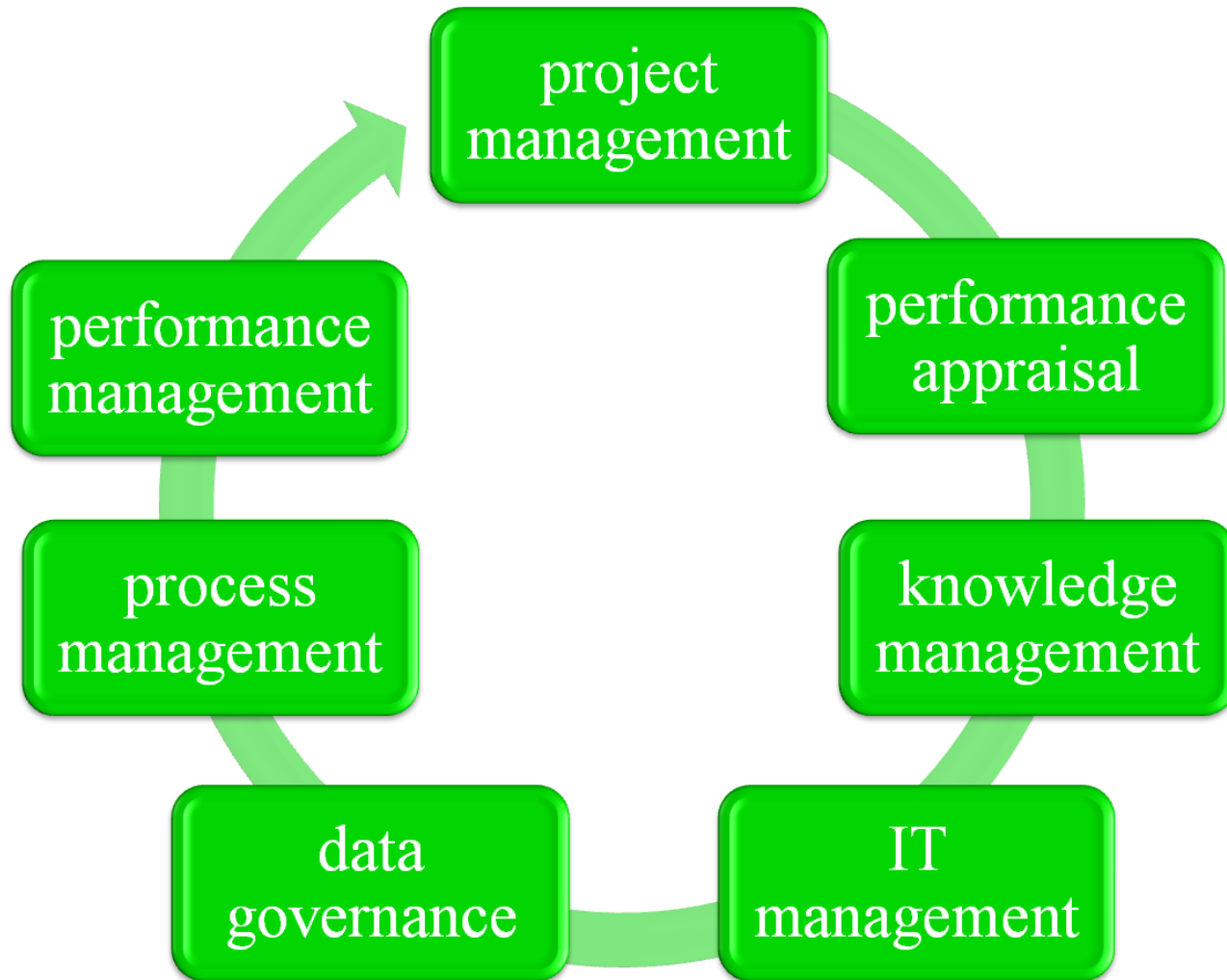


all activities recommended at first time, some may be omitted in iterations, Participation always recommended

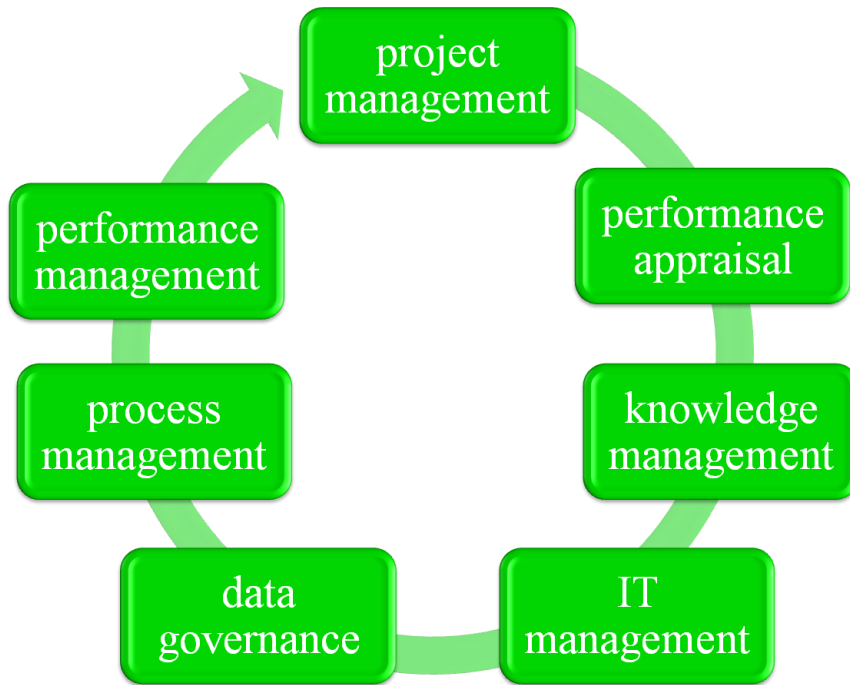
no strict waterfall, overlaps and re-orderings are possible



# IDEA lifecycle Evolution Phase



# IDEA lifecycle Evolution Phase



all activities recommended at first time, some may be omitted

in iterations, Project Management always recommended

recommended

no strict waterfall, overlaps and

re-orderings are possible

# IDEA lifecycle Assimilation Phase



monitor how the innovations effected by public sectors are adopted by all stakeholders involved, those internal to the public sector and, most importantly, those external

## IDEA lifecycle Assimilation Phase



# IDEA lifecycle Assimilation Phase



all activities recommended at first time, some may be omitted in iterations, Online Community

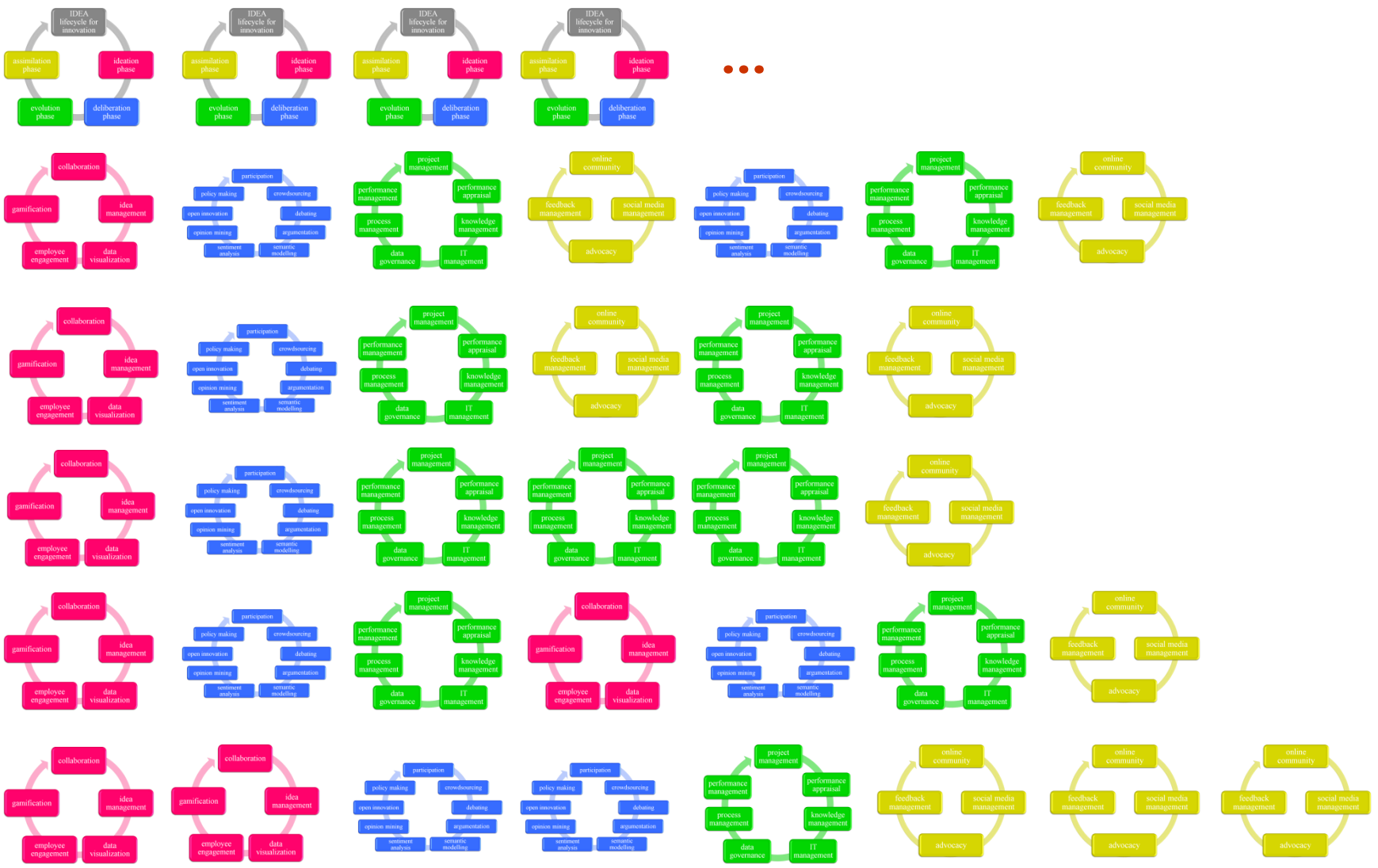
always recommended

no strict waterfall, overlaps and

re-orderings are possible



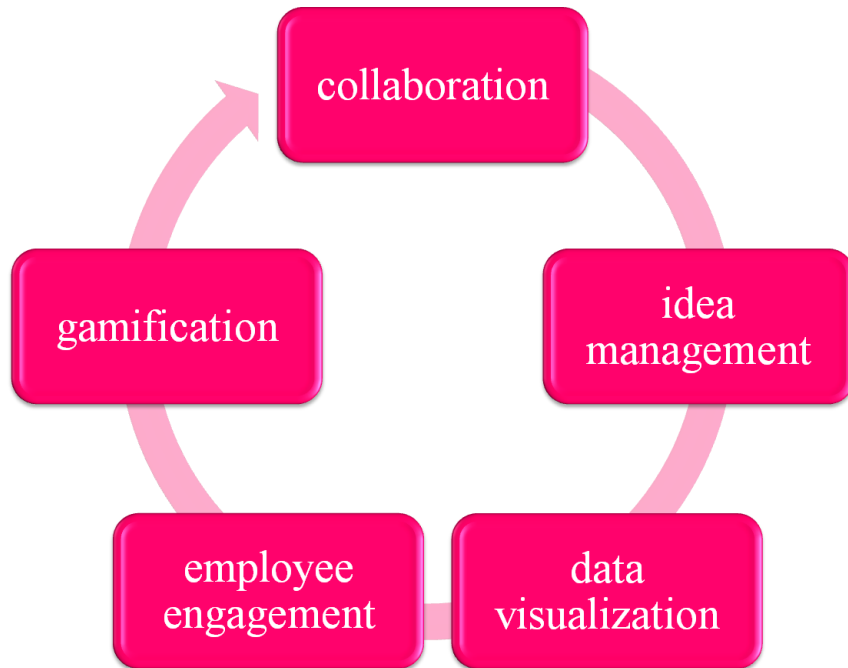
# degrees of iterativeness in the IDEA lifecycle



[ source: ibidem ]

discussion ...

# what would you think about the Ideation component ?



is it clear ? ☀☀☀☀☀

redundant ? ☀☀☀☀☀

holistic ? ☀☀☀☀☀

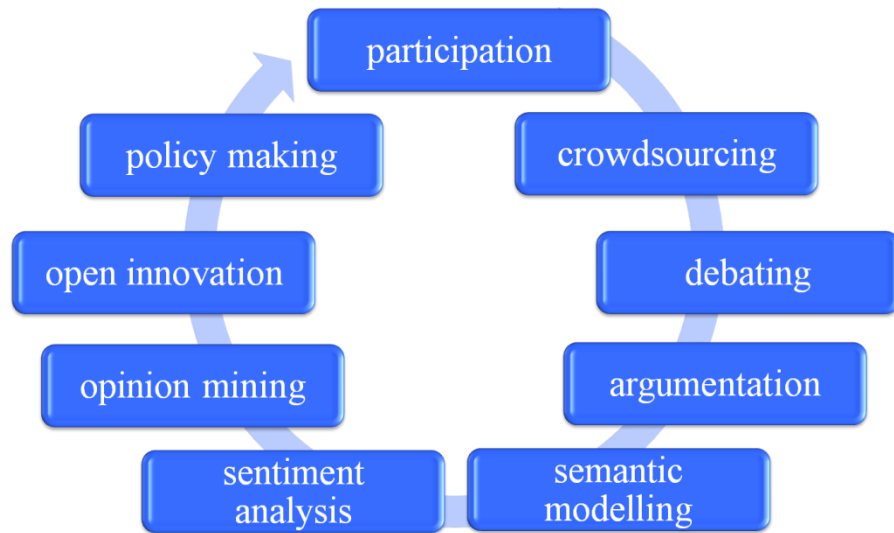
complex ? ☀☀☀☀☀

fit for context ? ☀☀☀☀☀

easy to apply ? ☀☀☀☀☀

yes/no's and why's welcome :-)

# what would you think about the Deliberation component ?



is it clear ? ☆☆☆☆☆

redundant ? ☆☆☆☆☆

holistic ? ☆☆☆☆☆

complex ? ☆☆☆☆☆

fit for context ? ☆☆☆☆☆

easy to apply ? ☆☆☆☆☆

yes/no's and why's welcome :-)



# what would you think about the Assimilation component ?



is it clear ? ☆☆☆☆☆

redundant ? ☆☆☆☆☆

holistic ? ☆☆☆☆☆

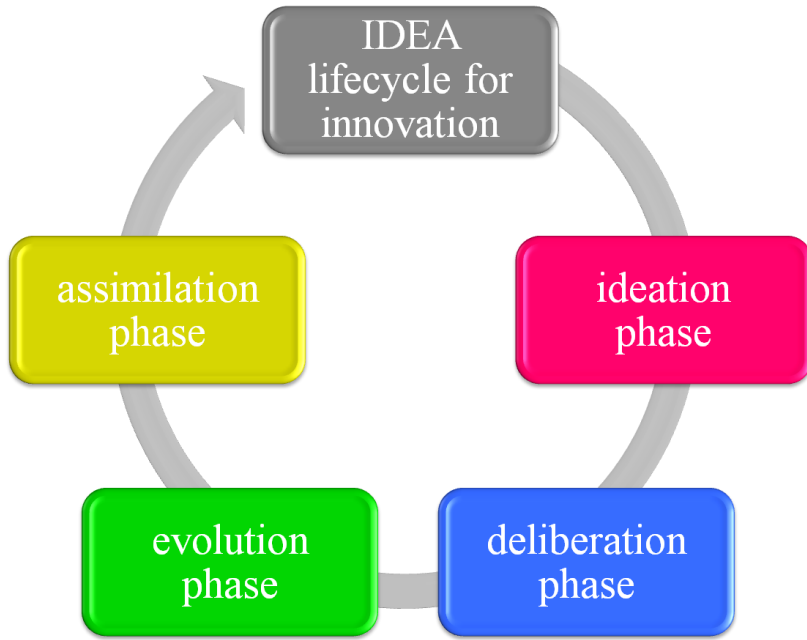
complex ? ☆☆☆☆☆

fit for context ? ☆☆☆☆☆

easy to apply ? ☆☆☆☆☆

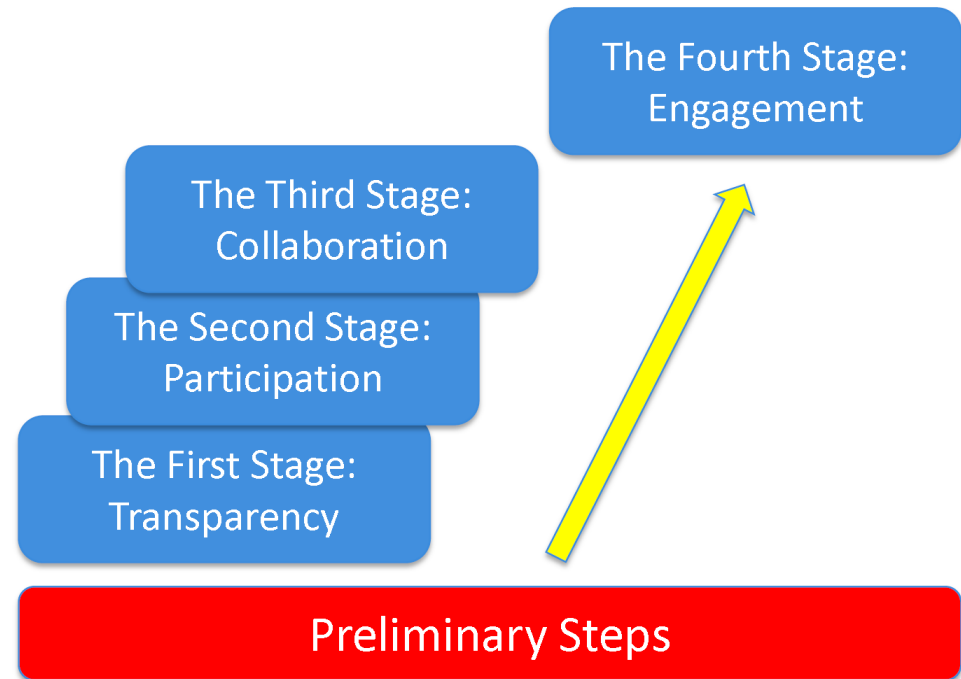
yes/no's and why's welcome :-)

## would you think IDEA fits the ESCWA 4-phased OGF ?

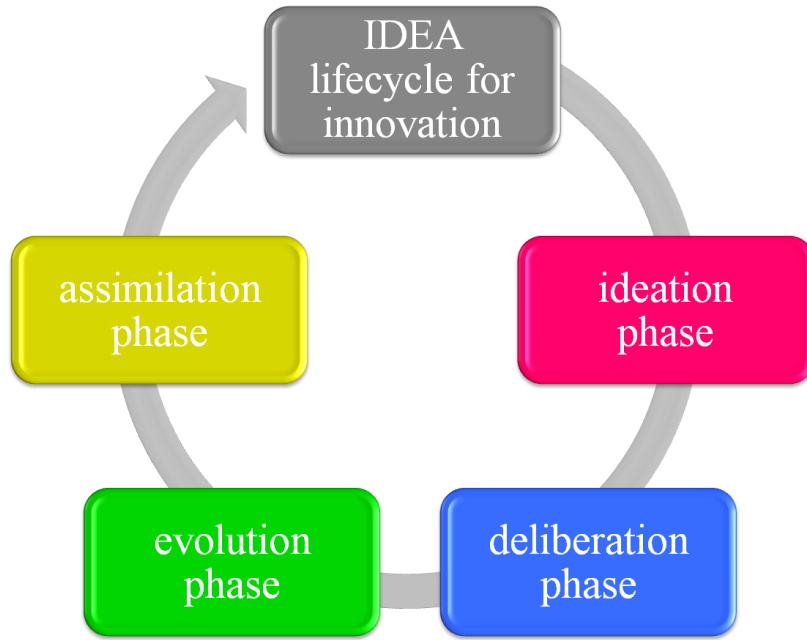


IDEA-guided PSI for  
collaboration services ?  
engagement services ?

IDEA-guided PSI for  
transparency services ?  
participation services ?

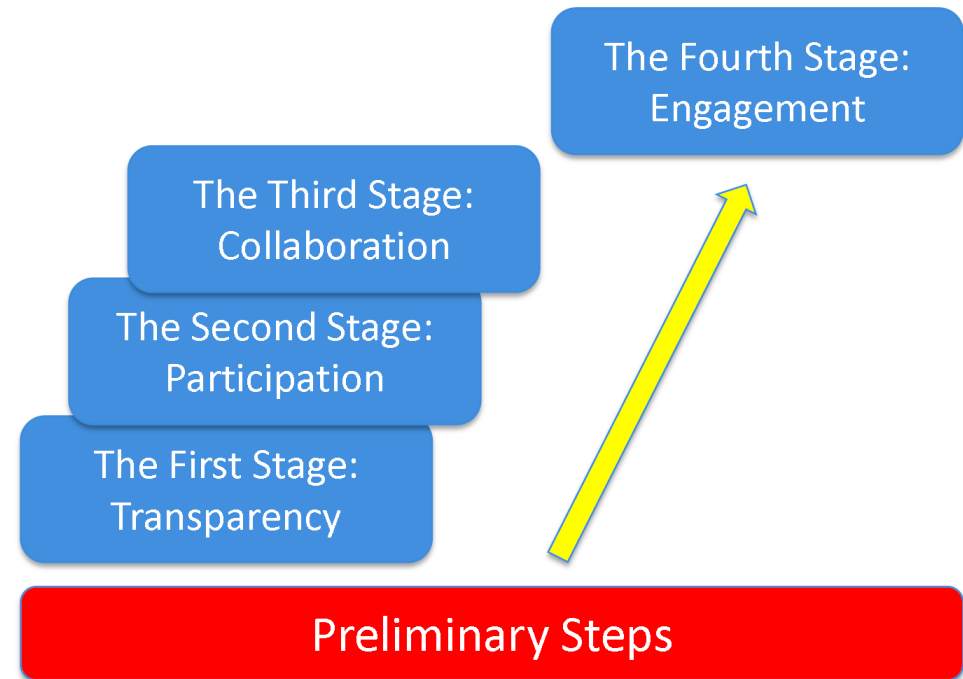


# would you think IDEA fits the ESCWA 4-phased OGF ?



transparency ?  
participation ?  
collaboration ?  
engagement ?

could a sustained IDEA-led  
PSI effort operate *per se*  
as a framework for





public sector innovation for open government  
through emerging technologies :  
a few examples to discuss

public sector innovation for transparency

starting from :

Texas Transparency, United States

<https://comptroller.texas.gov/transparency/>

# Texas Transparency information

## Government Innovators Network

A forum for innovation in the public sector



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## Texas Transparency

0 Comments

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2 Likes

The biennial state of Texas budget for 2016 and 2017 totals more than \$209 billion, a massive sum that provides vital services for nearly 27 million Texans. Given the state's size and the magnitude of the challenges facing it, transparency is critical to building confidence in government. Prior to the Comptroller's Texas Transparency initiative, various state agencies provided web access to fragments of fiscal information but the state had no centralized, user-friendly website providing comprehensive data on public finances. In January 2007, the Comptroller's office began by publishing simple web pages featuring agency expenses. By October of that year, the agency had published its award-winning "Where the Money Goes" site, which featured a searchable check register for state expenditures. In November 2008, the agency launched its "Texas Transparency Check-Up" site for Texas local governments, and in December 2009 launched the Leadership Circle, a program recognizing local government transparency. From its inception through 2015, the program granted 1,878 Circle awards to local governments that provide the public with easy

### 2017 SEMIFINALIST

DESIGNEE: State of Texas

JURISDICTION: Texas

SOURCE: Innovations in American Government Awards

See All From Source

### RELATED SOLUTIONS

2018 Top 25

Tech Talent Pipeline

City of New York, NY

[ source: <https://www.innovations.harvard.edu/texas-transparency> ]

# Texas Transparency website

The screenshot shows the top portion of the Texas Transparency website. At the top left is the logo for the Comptroller of Public Accounts, featuring a star and the text "COMPTROLLER.TEXAS.GOV". To the right of the logo is the name "Glenn Hegar" and his title "Texas Comptroller of Public Accounts". Below this is a dark navigation bar with white text for "HOME", "TAXES", "TRANSPARENCY", "ECONOMY", "PURCHASING", "PROGRAMS", and "ABOUT", each followed by a small downward arrow. Below the navigation bar is a search bar with a "Find" button and a search icon. The main content area features a large blue "Transparency" logo with a magnifying glass icon over a dollar sign. Below the logo is a paragraph of text explaining the website's purpose: "It is undisputed that meaningful transparency leads to greater accountability. The Texas Comptroller believes you have the right to know how government spends your tax dollars. Texans work hard to earn every tax dollar they send to the state, which is why it is important for us to publish information about how and where those dollars are spent. We provide easy-to-use tools to track state government spending across every state agency." Below this is another paragraph: "Information from nearly every local government entity across the state, including municipalities, counties, school districts and special purpose districts is easily accessible on our". On the right side of the page, there is a vertical stack of social media icons for Facebook, Twitter, YouTube, Instagram, and Email. At the bottom right, there is a white upward-pointing arrow icon. At the very bottom, there is a dark footer bar with white text and icons for "Contact", "Share/Connect", "Subscribe", "Policies", and "Careers".

COMPTROLLER.TEXAS.GOV

Glenn Hegar  
Texas Comptroller of Public Accounts

HOME TAXES ▾ TRANSPARENCY ▾ ECONOMY ▾ PURCHASING ▾ PROGRAMS ▾ ABOUT ▾

Find ▾ Enter a search term

## Transparency

It is undisputed that meaningful transparency leads to greater accountability. The Texas Comptroller believes you have the right to know how government spends your tax dollars. Texans work hard to earn every tax dollar they send to the state, which is why it is important for us to publish information about how and where those dollars are spent. We provide easy-to-use tools to track state government spending across every state agency.

Information from nearly every local government entity across the state, including municipalities, counties, school districts and special purpose districts is easily accessible on our

Contact Share/Connect Subscribe Policies Careers

[ source: <https://comptroller.texas.gov/transparency/> ]

# Texas Transparency website



## State Revenue

Monthly Revenue Watch  
Visualizations  
Additional Revenue Resources



## State Spending

Visualizations  
Additional Spending Resources



## Budget and Finance

Budget Process Primer  
Budget Lookup Tools  
Financial Reports and Forecasts  
Texas Investments



## Local Governments

Tax Allocation Comparison Summaries  
Transparency Stars  
Debt at a Glance Profiles  
Local Government Debt Reporting  
Hotel Occupancy Tax Reporting  
SPD Financial and Tax Reporting  
Eminent Domain



## Open Data Tools and Information

Data Visualizations and Dashboards  
Local Bond Elections  
Pension Search Tool  
Reports  
Search Datasets




 Contact

 Share/Connect

 Subscribe

 Policies

 Careers

# Texas Transparency website

## Spending: Where the Money Goes

Understanding how state government spends tax dollars shouldn't be difficult. Our powerful visualization tools give you an unprecedented look into state government finance.



Previous Fiscal Years Expenditures allows you to select and compare items from categories such as salaries, professional services and highway construction.



Spending by Agency and Payee allows you to search the state check register by fiscal year to reveal state spending by agency, payee and expenditure.



Travel Payments breaks down payments by agency, individual payee, type of travel expense and more.



Current Fiscal Years Expenditures lets you navigate state spending by major category for the current fiscal year.




Payments to Payee lists individual payments, transaction dates, Comptroller object codes and more.



Explore Economic Development Funds provides a look at economic development spending by fund, expenditure category and recipient.




  
Contact

  
Share/Connect

  
Subscribe

  
Policies

  
Careers

# some emerging technologies : satellite, IoT, blockchain

## Leveraging Satellites and the Internet of Things, SweetSense Facilitates Water Service Access in Kenya and Water Resource Management in California

**Ag** Agrilinks Team  
USAID May 16, 2019



*This post was written by Kiersten Johnson and Kevin Mulligan, US Agency for International Development, Bureau for Food Security*

### ADDITIONAL RESOURCES ON THIS TOPIC:

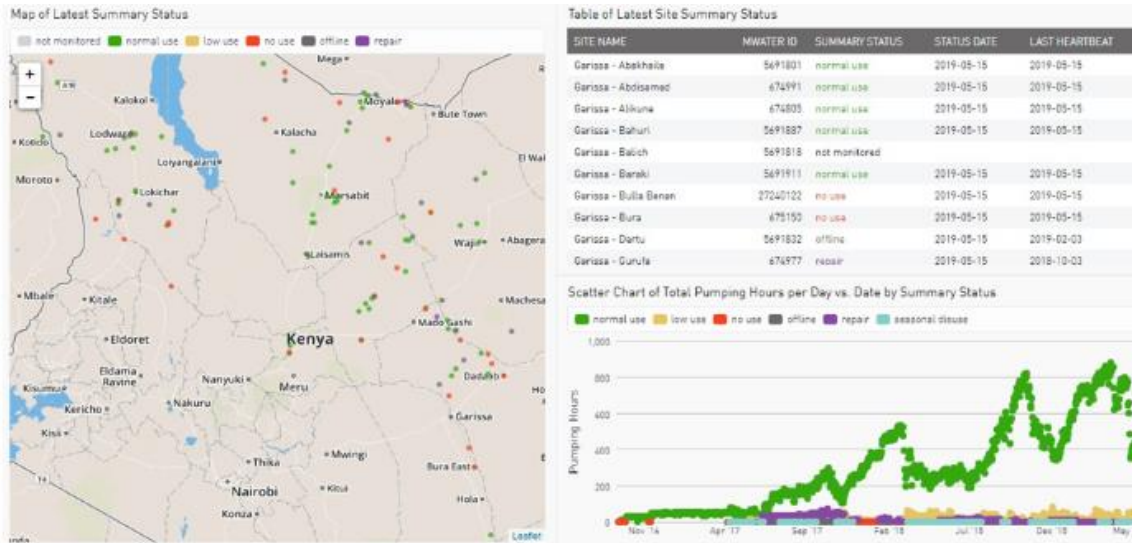
- YouTube: The state of California tackles drought with IoT and Blockchain
- WIRED: How the Blockchain could protect California's aquifer
- Forbes: IBM Pilots Blockchain and IoT Sensor Solution To Track Sustainable Groundwater Usage In California

Leave feedback

[ source: <https://www.agrilinks.org/post/leveraging-satellites-and-internet-things-sweetsense-facilitates-water-service-access-kenya-and> ]



# some emerging technologies : satellite, IoT, blockchain



Screenshot from the Kenya RAPID dashboard, showing the operating status of borehole wells across the country

These data also empower local service providers to implement preventive maintenance for the borehole wells to ensure there is water available during drought. The data are linked into the Famine Early Warning System Net (FEWSNet), which is where Earth observations data are leveraged: analysis of the relationship between remotely-sensed precipitation and monitored groundwater pumping activity provides an early warning signal for potential drought-related shocks, enabling better planning for water shortage and more resilient recovery.

Leave feedback

[ source: <https://www.agrilinks.org/post/leveraging-satellites-and-internet-things-sweetsense-facilitates-water-service-access-kenya-and> ]



# some emerging technologies : satellite, IoT, blockchain



HOME

MISSION

TEAM

TECHNOLOGY

SWEETDATA

APPLICATIONS

LIBRARY

EM Research State of California Tackles Drought with IoT & Blockchain

Watch later Share

80% In-Progress

20% In-Progress

For example, a strawberry farmer planning to take the season off could trade or sell water credits on the blockchain with a nearby winery experiencing a dry growing season.

The image shows a video player interface. At the top left is the 'EM Research' logo and the video title 'State of California Tackles Drought with IoT & Blockchain'. To the right are 'Watch later' and 'Share' buttons. The main content area features two hands holding smartphones. The left hand holds a red phone displaying '80% In-Progress' on a circular progress indicator. The right hand holds a purple phone displaying '20% In-Progress'. A play button is centered between the phones. Below the phones, a text box explains that a strawberry farmer could trade or sell water credits on the blockchain to a nearby winery experiencing a dry growing season.

[ source: <http://www.sweetsensors.com/applications/groundwater/> ]

discussion ...

# PSI for transparency example : points to reflect upon

is this example clear ? 🌟🌟🌟🌟🌟

would you think it qualifies as innovative ? 🌟🌟🌟🌟🌟

how easily could it be ported to your context ? 🌟🌟🌟🌟🌟

how much new technology would it need ? 🌟🌟🌟🌟🌟

which public sector could lead implementation ? 🖋️🖋️🖋️🖋️

which stakeholders should be involved ? 🖋️🖋️🖋️🖋️

which IDEA phases would be most critical ? 🖋️🖋️🖋️🖋️

which factor / risk could be critical for success ? 🖋️🖋️🖋️🖋️

which key metric could indicate performance ? 🖋️🖋️🖋️🖋️

public sector innovation for accountability

starting from :

BA Obras, Argentina

<https://www.buenosaires.gob.ar/baobras>

# BA Obras information

Data for Impact

OPINION | April 24, 2019 | 6 minutes

↑ 1



[ source: [https://apolitical.co/solution\\_article/buenos-aires-open-source-platform-is-making-public-works-transparent/](https://apolitical.co/solution_article/buenos-aires-open-source-platform-is-making-public-works-transparent/) ]



# BA Obras website

Transparencia

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SOLICITUDES

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Buenos Aires / Jefe de Gobierno / BA Obras

## BA Obras

Observatorio de obras urbanas abiertas de la ciudad. Conocé las obras que están mejorando Buenos Aires. Plan de gobierno 2016-2019.

Acerca de BA Obras

Buscador de Obras

Código Abierto

### Observatorio de Obras de la Ciudad



[ source: <https://www.buenosaires.gov.ar/baobras> ]

# BA Obras website

**Filtrar por tipo de obra**

 **Espacio Público**    **Escuelas**    **Arquitectura**    **Salud**    **Hidráulica e InFraestructura**    **Vivienda**    **Transporte**

**Filtrar por área de gobierno**

TODAS

986 obras

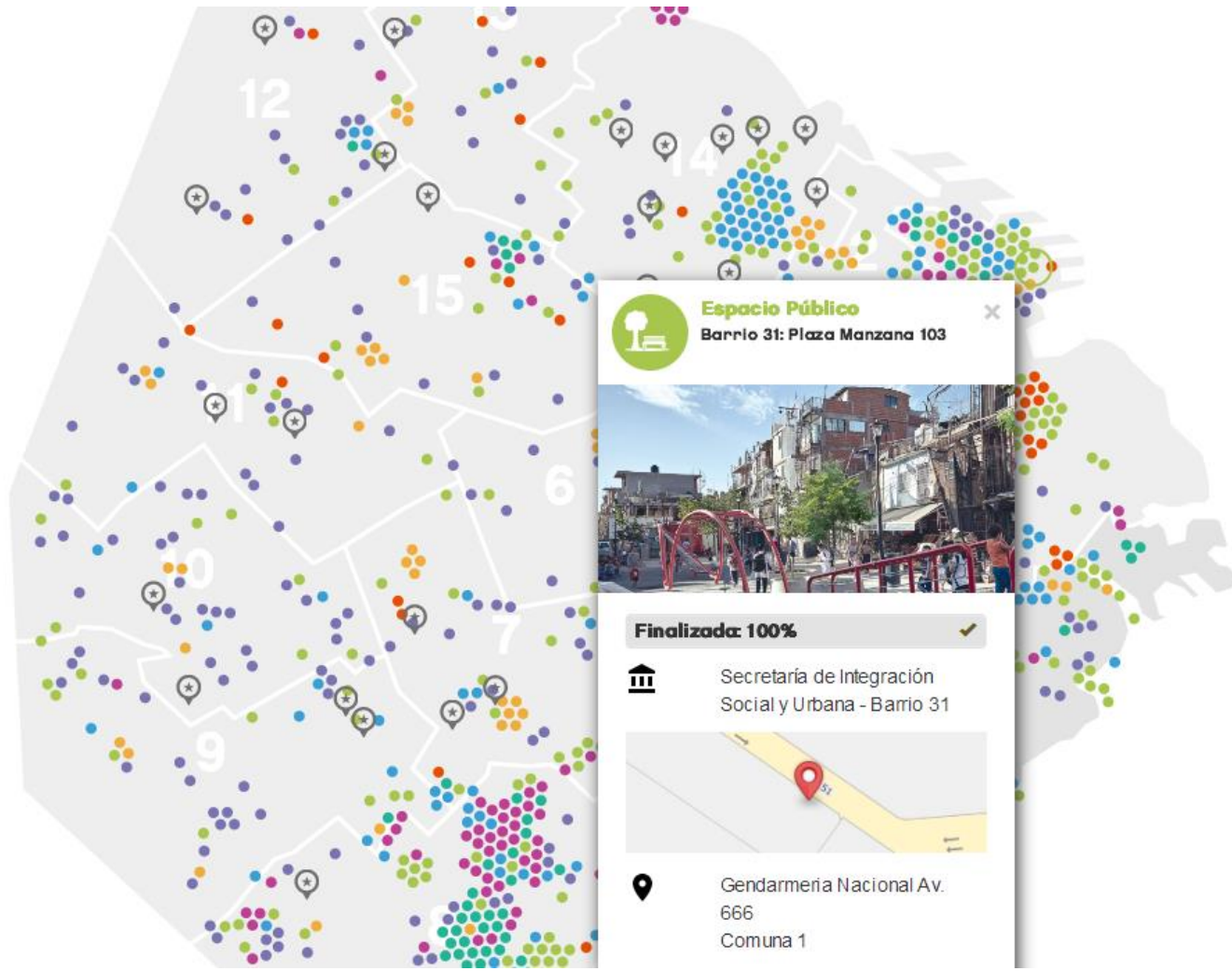
## Conocé las obras de tu comuna

**Buscar por**

Filtra por nombre o descripción de obra

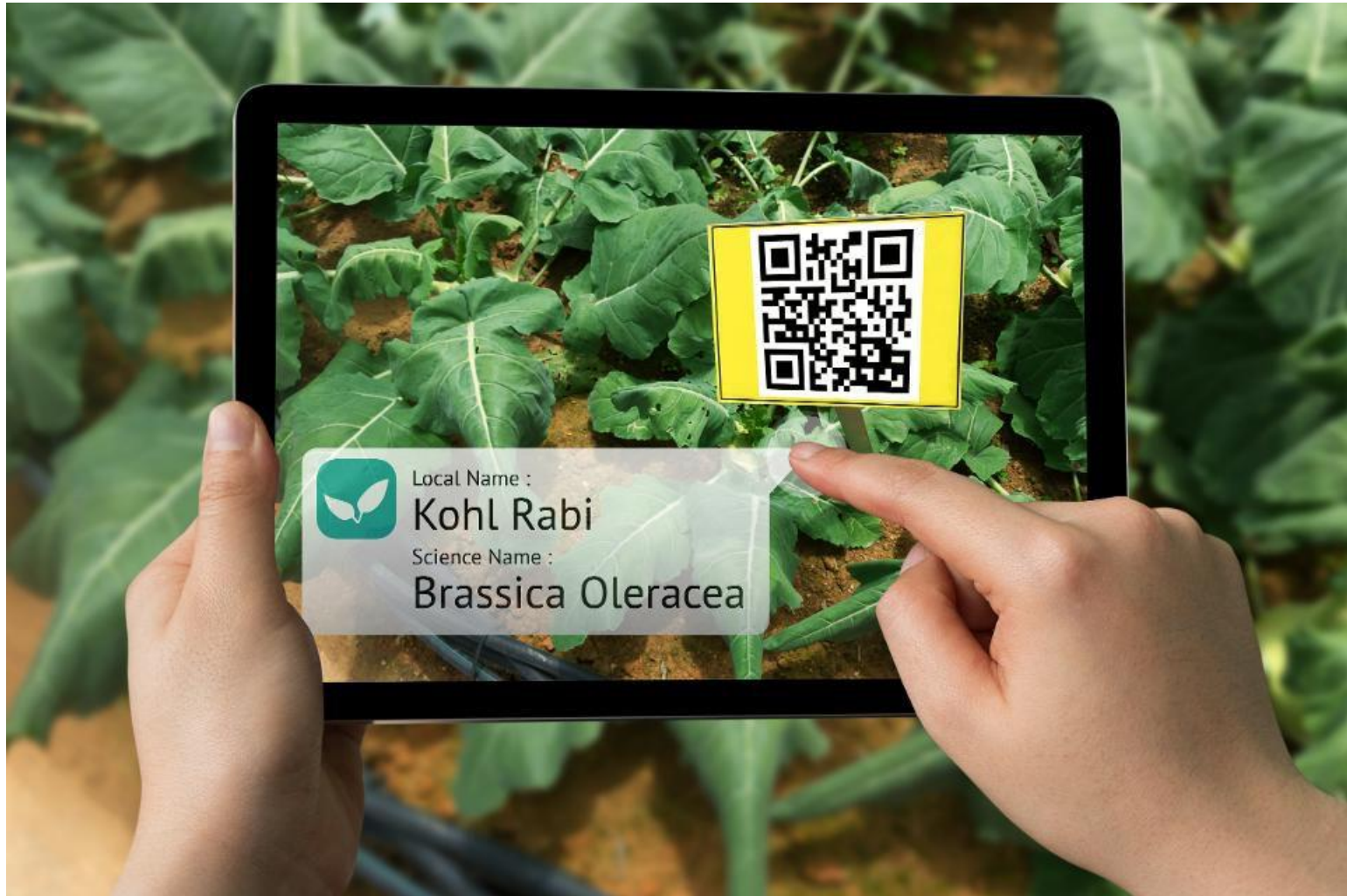
 [Ver Obras Destacadas](#)

# BA Obras website





## some emerging technologies: AR,VR



[ source: <https://www.forbes.com/sites/forbescommunicationscouncil/2018/04/17/augmented-reality-for-good/> ]

# some emerging technologies: AR,VR

In short, AR is an opportunity to create an enhanced experience to reach existing goals. Where text or video may fall short, AR can create an extra layer that brings a significant fence-sitting audience in. There are three main ways in which AR can do this:

**Create engagement.** Having someone step away from the usual way in which they interact with their devices (e.g., reading text on a screen, taking a photo) is an attention grabber. Your audience deliberately steps away from what they are used to and focuses on engaging with your unique content.

**Create empathy.** By engaging with the experience you are presenting, your audience is given the opportunity to better understand the change you seek -- whether that's to directly improve the lives of people in need or to advocate for policy change to reduce greenhouse gas emissions -- and they start to share that same desire.

**Create action.** Your audience has already stepped away from what they were doing to focus on your message, so getting them to take that next step -- to donate, sign a petition or share your research -- is that much easier to do.

[ source: <https://www.forbes.com/sites/forbescommunicationscouncil/2018/04/17/augmented-reality-for-good/> ]

# some emerging technologies: AR,VR

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## VR FOR IMPACT - EXAMPLE EXPERIENCES

- **Understand everyone.** Literally walk a mile in another person's shoes. Experience war zones, celebrations, life, death and everything in-between. Creating empathy for every human experience is a new frontier in VR.
- **Educate through experience.** Bring history to life in the most immersive way yet possible. Place people inside math equations. Unlock the microscopic world. Witness the Big Bang, then rewind and let it happen again.
- **Work in new ways.** See your industrial project from inside and out. Collaborate with colleagues, going way beyond the whiteboard in real time and real space. Open up the 'sharing economy' in whole new ways.
- **Travel to the impossible.** Get closer to ancient ruins than you ever could in real life. Travel instantly to any point on the globe, or the solar system, or beyond. Experience environments inhospitable for human life. Go on safari as one of the animals.
- **Make medicine become magic.** Visualize the human body at a definition never witnessed. Operate from anywhere. Bring clarity to the confused, sight to the blind and relief to those in pain.
- **Reshape the planet.** Warn the world of climate change, then show them the possibilities of a fossil-fuel free existence.

# some emerging technologies: AR,VR

## Our Stories



### VR FOR HISTORY

Stepping into the past to learn from it.

[Watch Film >](#)



### VR FOR HEALTH

Preparing for emergencies before they happen.

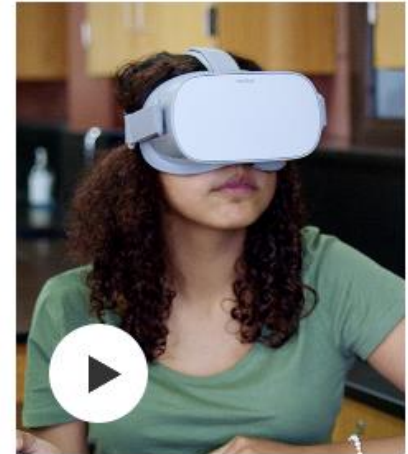
[Watch Film >](#)



### VR FOR CHANGE

Shifting perspectives by telling deeper stories.

[Watch Film >](#)



### VR FOR EDUCATION

Opening minds by expanding classrooms.

[Watch Film >](#)

discussion ...

## PSI for accountability example : points to reflect upon

is this example clear ? 🌟🌟🌟🌟🌟

would you think it qualifies as innovative ? 🌟🌟🌟🌟🌟

how easily could it be ported to your context ? 🌟🌟🌟🌟🌟

how much new technology would it need ? 🌟🌟🌟🌟🌟

which public sector could lead implementation ? 🖋️🖋️🖋️🖋️

which stakeholders should be involved ? 🖋️🖋️🖋️🖋️

which IDEA phases would be most critical ? 🖋️🖋️🖋️🖋️

which factor / risk could be critical for success ? 🖋️🖋️🖋️🖋️

which key metric could indicate performance ? 🖋️🖋️🖋️🖋️

public sector innovation for participation

starting from :

WeSenseIt Citizen Water Observatories, EU

<http://www.wesenseit.com/>



# WeSenseIt Citizen Water Observatories



## WeSenseIt: Citizen Water Observatories

### The Delfland Case

Read More

WeSenseIt is an EU FP7 project developing citizen observatories of water and flooding to facilitate citizen engagement in planning, decision making and governance. One of the three case studies within the WeSenseIt project is the Dutch Delfland Case.

[ source: <http://www.wesenseit.com/> ]

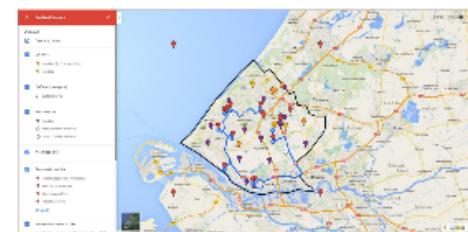


# WeSenseIt Citizen Water Observatories

## Delfland Case: 41,000 hectares highly industrialised testing ground

On an area of 41,000 hectares, about 1.4 million people live and work, and approximately 40,000 businesses are established. This makes the Delfland region one of the most densely populated and most highly industrialized areas of the Netherlands. The region is furthermore renowned for its intensive glasshouse horticulture.

The WeSenseIt Delfland Case focuses on crowdsourcing approaches to enhance the information chain of water authorities and the general public. Information sources of professionals and the public are enhanced, shared and blended to new, more detailed and localised information. This supports water managers to better perform their tasks and stimulates the public to be better informed and engaged in water management.



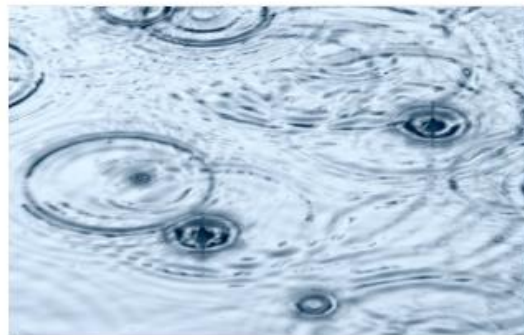
The project delivers new smartphone crowdsourcing apps, innovative low cost Disdro rain gauges, and autonomous soil-moisture sensors. It encourages citizen communities to upload, share, discuss and rate data and information on their water environment with a focus on minimising the effects of pluvial flooding and poor water quality. [Read more](#)

# WeSenseIt Citizen Water Observatories

Within the WeSenseIt Delfland Case Study several applications have been developed. The most important ones are:



WaterDetective Web Viewer



SmartIrrigation



Disdrometers

# some emerging technologies: drones

## TRANSFORMATION

### PARTNERS

**Wasserman Foundation**

### LOCATIONS

**Global**

### SECTOR

**Technology**

### SHARE



## Drones for Good

Bringing together technologists and social innovators to imagine new uses for these “flying helpers”

New drone technology has great potential to address major global health challenges, from disaster response to the speedy delivery of goods to the world’s hardest-to-reach places. With this in mind, IDEO.org set out to explore the potential applications for this burgeoning technology in the world of social good.

Working with funding from the Wasserman Foundation, we charged a team of designers to think big about how drones might serve everyone. As part of this design exploration, we visited Bay Area drone makers, connected with experienced global health organizations, and consulted with experts of social innovation to see if there was a fit or where other unexpected intersections might lie.

# some emerging technologies: drones

Since 2016, Zipline, a California company, has piloted more than 8,000 flights over Rwanda, delivering blood for transfusions. Its drones are launched by catapult and do not land at their destinations, but fly low overhead and drop their payloads by paper parachute.

Zipline has plans to start delivering vaccines in Rwanda within weeks and in Ghana early in 2019.

Emergency drops of rabies vaccine for children bitten by dogs will be the first priority, said Dr. Seth F. Berkley, chief executive officer of Gavi, the Vaccine Alliance, which joined the package delivery company U.P.S. in supporting the Rwandan effort.

Since last year, Unicef has run a “drone test corridor” in the southern African nation of Malawi to test delivery of humanitarian supplies, including vaccines.

But this is the first commercial contract for routine childhood vaccines. Swoop Aero, an Australian start-up, will be paid only for shipments that arrive safely, Unicef said.

## some emerging technologies: drones



The Drones for Good Award is presented by His Highness Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the United Arab Emirates, to the winning team Flyability.

Flyability from Switzerland won the US\$1 million grant in the International Competition. The Flyability team has developed Gimball, a drone that can enter confined spaces and safely fly close to humans, proving to be highly effective in rescue missions. It is protected by a rotating cage which makes it capable of colliding with obstacles in challenging environments without losing its stability.

Flyability team lead Patrick Thevoz said, "We struggled to find funding to develop our search and rescue drone but this UAE Government Summit initiative, Drones for Good, means we can commercially develop our project within a year, and with Flyability able to go where it is dangerous for rescuers, help save lives."

[ source: <https://www.dronethusiast.com/drones-for-good-gimball-winner/> ]

discussion ...

# PSI for participation example : points to reflect upon

is this example clear ? 🌟🌟🌟🌟🌟

would you think it qualifies as innovative ? 🌟🌟🌟🌟🌟

how easily could it be ported to your context ? 🌟🌟🌟🌟🌟

how much new technology would it need ? 🌟🌟🌟🌟🌟

which public sector could lead implementation ? 🖋️🖋️🖋️🖋️

which stakeholders should be involved ? 🖋️🖋️🖋️🖋️

which IDEA phases would be most critical ? 🖋️🖋️🖋️🖋️

which factor / risk could be critical for success ? 🖋️🖋️🖋️🖋️

which key metric could indicate performance ? 🖋️🖋️🖋️🖋️

public sector innovation for engagement

starting from :

I Value Citizen Budget Input, United States

<https://www.hampton.gov/2016/I-Value-Citizen-Budget-Input>



# I Value Citizen Budget Input

Create an Account - Increase your productivity, customize your experience, and engage in information you care about.

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FY19 I Value Campaign



FY18 I Value Campaign



FY17 I Value Campaign



FY16 I Value Campaign



FY15 I Value Campaign



FY14 I Value Campaign

[Home](#) > [Government](#) > [Budget Office](#) > [I-Value Citizen Budget Input](#) > About the I Value Campaign

▼ A A▲

## About the I Value Campaign

Upon becoming the Hampton city manager in January 2010, Mary Bunting faced the task of balancing the upcoming FY11 budget - when home values were declining and some mandatory costs were increasing. Hampton, a city that had won national awards for civic engagement, faced major cuts to city services.

The standard process called for the manager to work behind closed doors until she proposes a budget to the elected body, which then holds public hearings. People object to the cuts, and new cuts are substituted - too late for opposition to gather or be effective. That process favors insiders and leads to conflict, pitting individuals against each other and against their own elected representatives.

Bunting went to back to her core Hampton values: Trust employees and citizens to know what is best. Don't make decisions in a vacuum. She pulled together a multi-disciplinary team from a variety of departments and challenged them to embark on the most extensive community involvement project the city had ever undertaken.

It was called I Value because it wasn't just about cuts or budgets. It sought to determine which city services were the most valued. I Value lets citizens evaluate the service they are getting vs. the services they desire, weighed against the fiscal realities of what they are willing to pay. It has become the way we as a city do business.

[ source: <https://www.hampton.gov/3183/About-the-I-Value-Campaign> ]

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FY15 I Value Campaign



FY14 I Value Campaign

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▼ A ▲

## I Value - Citizen Budget Input

I Value lets citizens evaluate the service they are getting vs. the services they desire, weighed against the fiscal realities of what they are willing to pay. It has become the way we as a city do business.

### TOP NEWS

### CALENDAR

**City manager's recommended budget for FY 2020 is now available online** April 15, 2019 - The city manager's

recommended budget for Hampton in 2019-2020 is now available online. The proposed budget would fully fund the city schools' budget, add police personnel and provide raises for city and school staff.

[Read on...](#)

**Proposed budget boosts schools, police, flood mitigation, economic development** April 10, 2019 - City

Manager Mary Bunting's spending plan would fully fund the schools' budget, add police, boost flood mitigation projects, increase workforce development, give 3 percent raises for city and school staff, and facilitate development.

[Read on...](#)

## Contact Us

311 Citizen Contact Center

Email 311

### Physical Address

136 Kings Way  
Hampton, VA 23669

Phone: 3-1-1 (from landline inside city)

Phone: 757-727-8311 (from cell or outside the city)

Fax: 757-727-8300

### Hours

7 days a week

7 a.m. - 11 p.m.

[ source: <https://www.hampton.gov/2016/I-Value-Citizen-Budget-Input> ]

# I Value Citizen Budget Input

Create an Account - Increase your productivity, customize your experience, and engage in information you care about.

Sign In

Campaign

FY18 I Value Campaign



FY17 I Value Campaign



FY16 I Value Campaign



FY15 I Value Campaign



FY14 I Value Campaign



FY13 I Value Campaign

## FY19 I Value Campaign

### News Flash

**City manager's recommended budget for FY 2020 is now available online** April 15, 2019 - The city manager's recommended budget for Hampton in 2019-2020 is now available online. The proposed budget would fully fund the city schools' budget, add police personnel and provide raises for city and school staff.

[Read on...](#)

### Proposed budget boosts schools, police, flood mitigation, economic development

April 10, 2019 - City Manager Mary Bunting's spending plan would fully fund the schools' budget, add police, boost flood mitigation projects, increase workforce development, give 3 percent raises for city and school staff, and facilitate development.

[Read on...](#)

### Solid waste fee projected to increase next year; budget input meetings scheduled

Feb. 28, 2019 - Public Works managers told City Council on Wednesday that decreasing costs of energy, a worldwide glut of recyclables and the need to invest in technology will push up the cost of the solid waste fee next year.

[Read on...](#)

### Documents and presentations for I Value FY19

- Budget 101-About the city budget (PDF)
- I Value Chat with City Manager 2.22.2018 (PDF)
- I Value polling results 03.28.18 (PDF)

# some emerging technologies: big data, AI, blockchain



Telefonica

Think Big / Business

Countries / GLOBAL

Artificial Intelligence

Data stories



Last week, September 19th, the GSMA announced, at the United Nations General Assembly Week in New York, new developments in its **Big Data for Social Good Initiative**. Eduardo Navarro, President and CEO of VIVO (Telefónica Brazil), took part in the panel where the main focus was on finding new ways to use technology for the benefit of sustainable development.

## Top 3 post



Coca-Cola's use of AI to stay at the top of the drinks market



The best Data Science certifications



Warning About Normalizing Data

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[ source: <https://business.blogthinkbig.com/gsma-announces-new-developments-in/> ]



# some emerging technologies: big data, AI, blockchain



Telefonica

Think Big / Business

Countries / GLOBAL

## Artificial Intelligence Data stories

The pilot is being run from the **Big Data for Social Good Unit** (LUCA) in collaboration with *Telefonica Sustainable Innovation Global Direction* (Telefonica S.A), *Telefonica Brazil Sustainability Direction* (VIVO), *Sao Paulo Municipality* and *GSMA*. Other partners will be also invited to collaborate and provide resources and data.

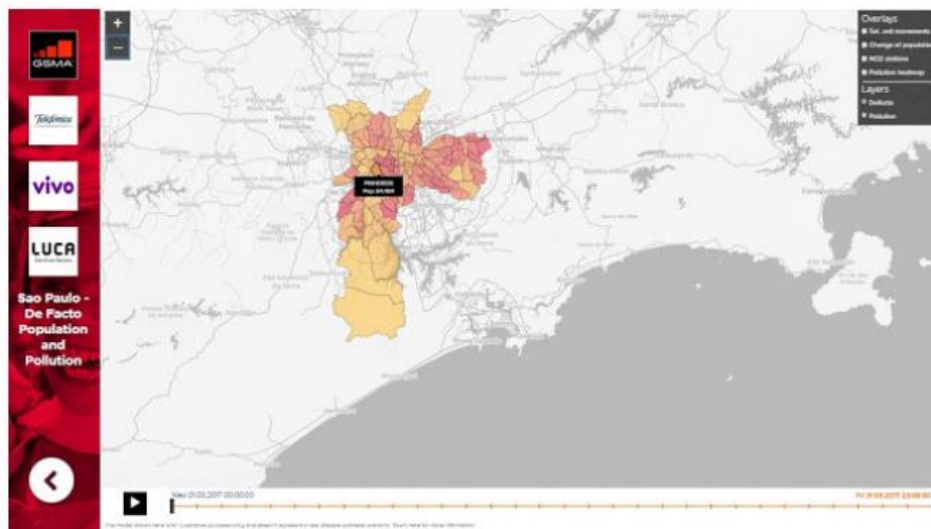


Figure 3: Pilot Project in Sao Paulo

[ source: <https://business.blogthinkbig.com/gsma-announces-new-developments-in/> ]

# some emerging technologies: big data, AI, blockchain



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Despite much advancement in traffic safety, **motor vehicle accidents still account for over 36,000 deaths** in the United States and have increased from 1999 to 2015 (National Vital Statistics Reports, 2017). As such, there is a need to improve traffic safety, and reduce deaths due to motor vehicle collisions.

Road design is often informed by traffic microsimulations. These simulations are usually based upon driver models and make assumptions regarding the drivers. Using these models, it is difficult to predict accidents because, on the timescale of the microsimulations, they are relatively rare (Ciro and Maurizio, 2012). Instead, accidents are prevented using standard design practices (Erskine, 2006), but these practices may not be suitable or scalable to certain regions, road conditions, or intersection geometry. Designers need a tool that can accurately and quickly analyze a road design and identify key areas of high risk for accidents.

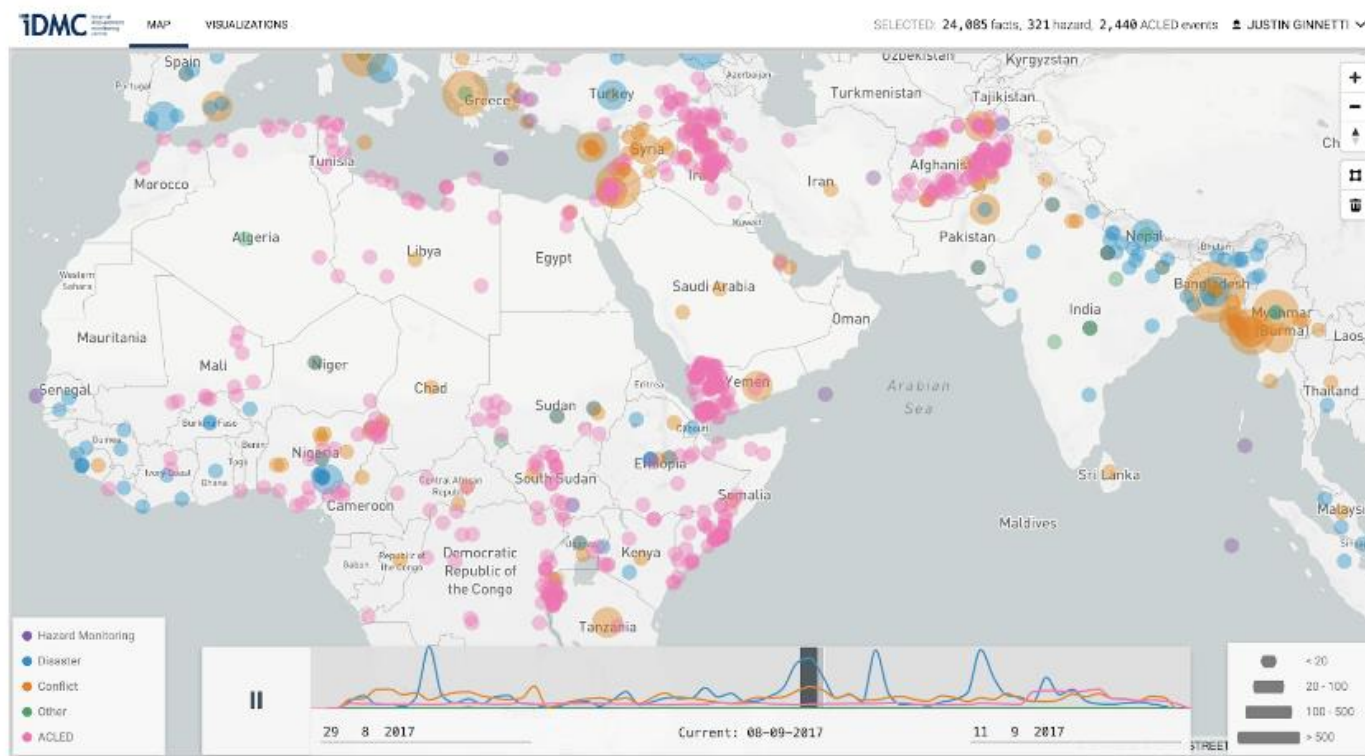
According to a study by **World Health Organization, approximately 1.25 million die each year in traffic accidents** (Who, 2015). There has been previous research investigating the causes of road crashes, including factors associated with driver behavior and road design features (Thomas, 2013; Wedajo, 2017; Mohamedshah, 1994; Çepni,



# some emerging technologies: big data, AI, blockchain



In 2018 we launched our new real-time monitoring platform (figure below) which visualises several types of information and makes our work much more timely and efficient. The platform displays information about reported incidents of conflict and the occurrence of natural hazards, and it displays the results of IDETECT, our natural language processing and supervised machine learning tool.



# some emerging technologies: big data, AI, blockchain

## **Building Blocks – How the World Food Programme is harnessing Blockchain technology to deliver humanitarian assistance**

Michael Reuter

30 April 2017

[ source: <https://datarella.com/building-blocks-how-the-world-food-programme-harnesses-blockchain-technology-ro-deliver-aid/> ]



# some emerging technologies: big data, AI, blockchain



**What started with a Proof-of-Concept in Pakistan in early January this year, has been transformed in a fully functional Blockchain pilot being rolled out in Jordan in May, 2017. The **Building Blocks** project not only demonstrates the power and the impact of blockchain technology and its potential to enhance the lives of millions but it is proof of the technology's potential for efficiency gains for a humanitarian agency, such as WFP.**

Based on the early, however robust prototype field tested in Pakistan, the Building Blocks pilot in Jordan now serves thousands of households in a Jordanian refugee camp Tazweed village. The inhabitants receive food vouchers that can be used in the village's supermarket. The seamless integration of the existing iris scan identification technology into Building Blocks system allows the existing processes to stay in place without any need for changes for the beneficiaries, the supermarket nor WFP personnel. The only visible differences are a higher transparency of aid accounts for beneficiaries and easier bookkeeping for supermarket managers. The biggest, however invisible, advantage is a minimized risk of fraud or data mismanagement.

[ source: <https://datarella.com/building-blocks-how-the-world-food-programme-harnesses-blockchain-technology-ro-deliver-aid/> ]



discussion ...

# PSI for engagement example : points to reflect upon

is this example clear ? 🌟🌟🌟🌟🌟

would you think it qualifies as innovative ? 🌟🌟🌟🌟🌟

how easily could it be ported to your context ? 🌟🌟🌟🌟🌟

how much new technology would it need ? 🌟🌟🌟🌟🌟

which public sector could lead implementation ? 🖋️🖋️🖋️🖋️

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which IDEA phases would be most critical ? 🖋️🖋️🖋️🖋️

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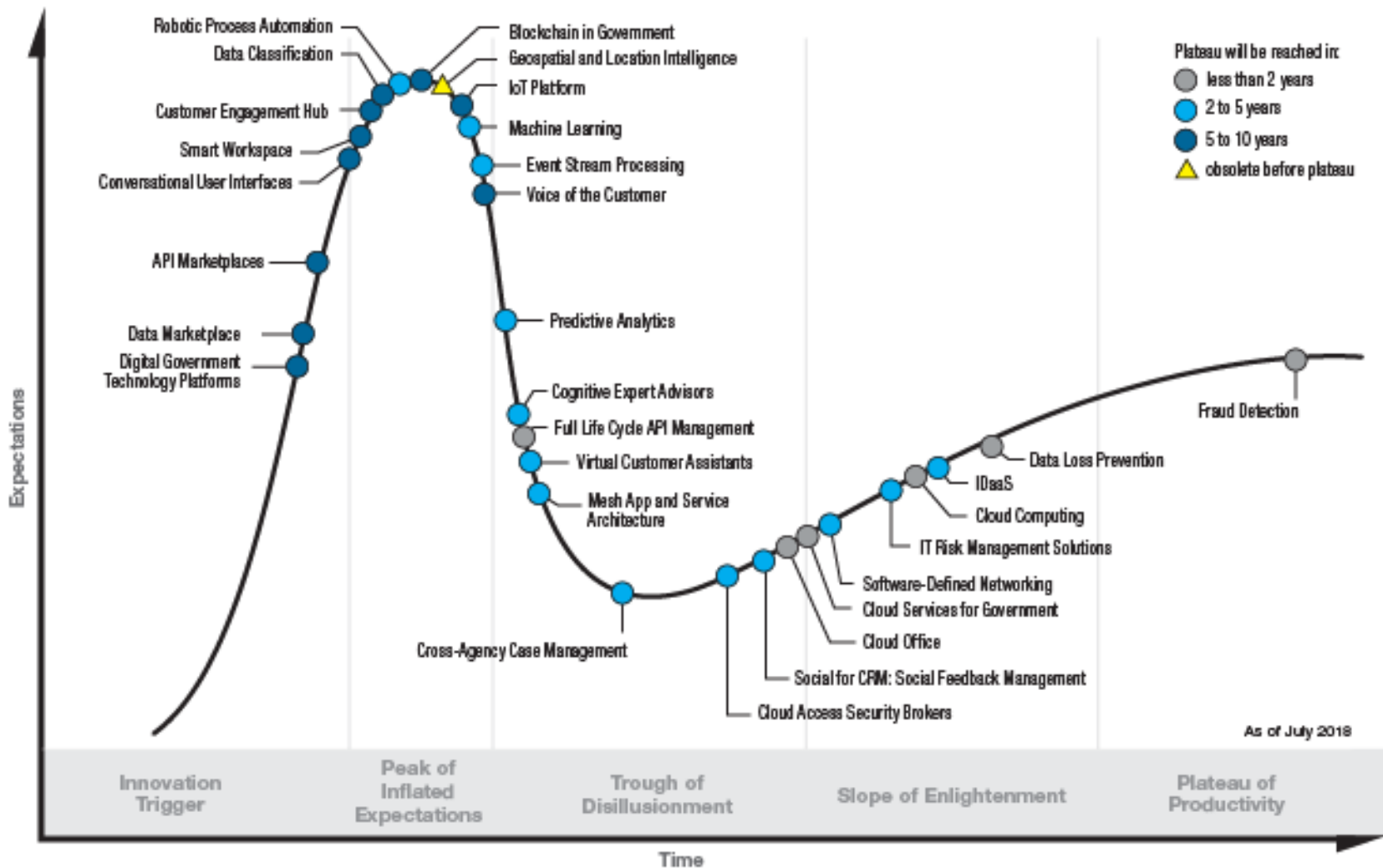
which key metric could indicate performance ? 🖋️🖋️🖋️🖋️

some additional online resources :

looking for more examples of  
public sector innovation for open government  
through emerging technologies

# Gartner's hype cycles

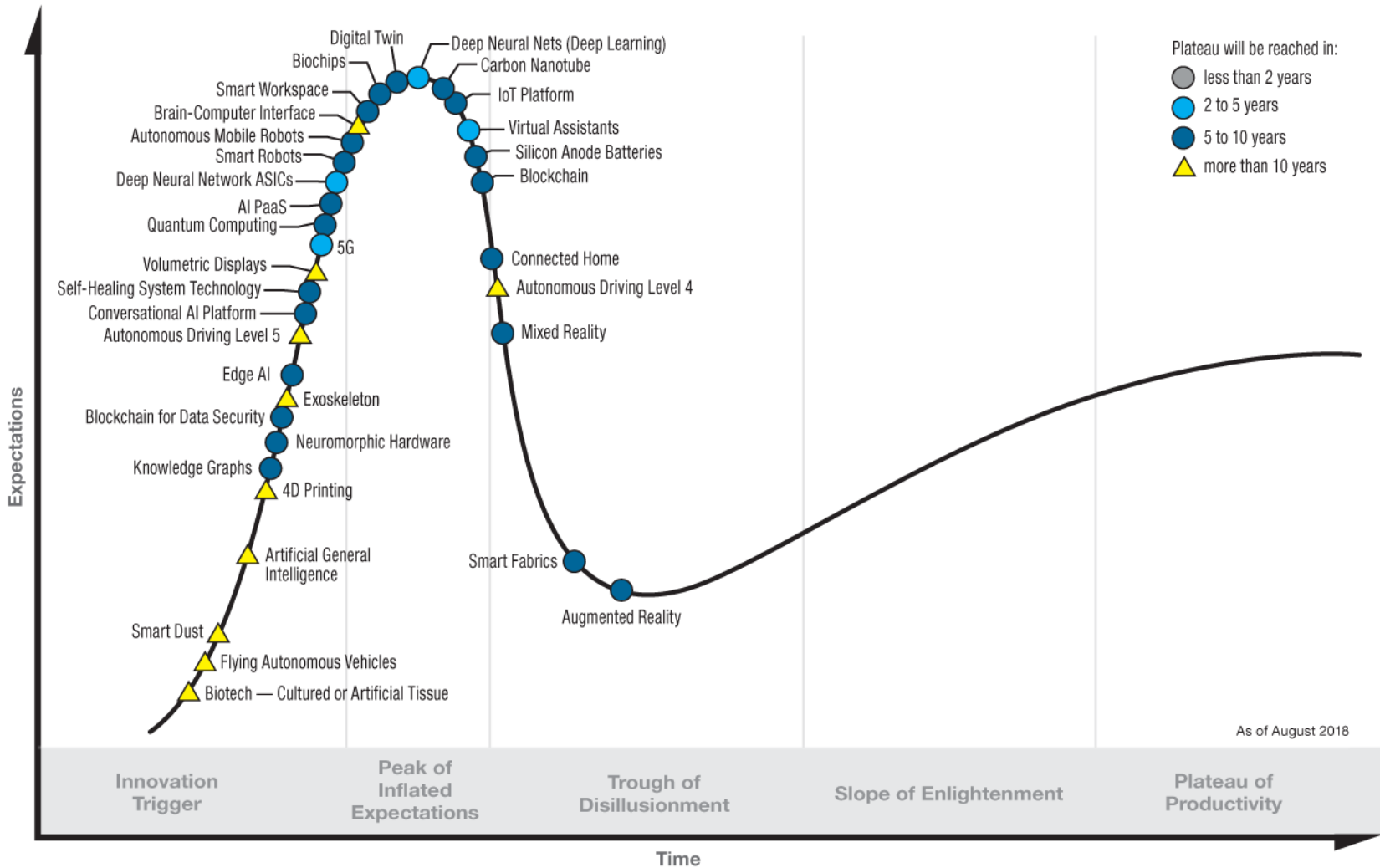
## Hype Cycle for Digital Government Technology, 2018



[ source: Gartner, <https://www.gartner.com/smarterwithgartner/top-trends-from-gartner-hype-cycle-for-digital-government-technology-2018/>, all rights reserved ]

# Gartner's hype cycles

## Hype Cycle for Emerging Technologies, 2018



[ source: Gartner, <https://www.gartner.com/smarterwithgartner/5-trends-emerge-in-gartner-hype-cycle-for-emerging-technologies-2018/>, all rights reserved ]

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## Government Innovators Network

A forum for innovation in the public sector



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The Government Innovators Network collects and disseminates the best ideas in governance. Let us help you find creative and innovative solutions to your public policy challenges.

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- To browse a curated collection of trending topics and strategies, choose from among the drop-down selections in the boxes to the right.
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*Posted on June 23, 2019*

INSTITUTIONAL INNOVATION

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*Posted on June 23, 2019*

CROWDSOURCING

Crowdsourcing and Crisis Mapping in Complex Emergencies

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ARTIFICIAL INTELLIGENCE

Developing Artificially Intelligent Justice

*Posted on June 21, 2019*

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Public Entrepreneurship: How to train 21st century leaders

*Posted on June 20, 2019*

DATA COLLABORATIVES

The Education Data Collaborative: A new kind of partnership.

*Posted on June 20, 2019*

INSTITUTIONAL INNOVATION

Philanthropy's Role

*Posted on June 20, 2019*



# Innovate UK Blog

## The power of the crowd: female-led innovative businesses on networking

Innovate UK admin, 19 June 2019 - diversity & inclusion, Enterprise Europe Network, Global business opportunities, women in innovation



## About Innovate UK


A blog on the work of Innovate UK. Contributors are Innovate UK staff and our wider family, partners and experts from the world of innovation.

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## Knowledge Base of UN Public Service Awards Initiatives

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Year	Initiatives	Institution Name	Category	Country
2017	«Moscow's public services: benefit, care, smile!»	Government of Moscow	Promoting transparency, accountability and integrity in public service	Russian Federation
2017	«Smart Municipality» - Development and introduction of Municipal Management Information System in RA	Ministry of Territorial Administration and Development of the Republic of Armenia	Promoting transparency, accountability and integrity in public service	Armenia
2017	Abu Dhabi Social Housing Policies and Programs	Abu Dhabi Housing Authority	Promoting transparency, accountability and integrity in public service	United Arab Emirates
2017	Access to Information (a2i) Programme	Prime Minister's Office, Bangladesh	Promoting transparency, accountability and integrity in public service	Bangladesh
2017	Accounting and Fiscal Information System for the Brazilian Public Sector (Siconfi)	National Treasury Secretariat	Promoting transparency, accountability and integrity in public service	Brazil
2017	Accueil multicanal	Caisse Nationale des Organismes de Prévoyance Sociale	Promoting transparency, accountability and integrity in public service	Morocco
2017	ADMISSIONS ONLINE APPLICATION	Gauteng Department of Education	Promoting transparency, accountability and integrity in public service	South Africa
2017	Anti-Violence & Addiction Program	Ministry of Interior	Promoting transparency, accountability and integrity in public service	Bahrain
2017	Aumentando la confianza de los ciudadanos en el Estado	Departamento Administrativo de la Función Pública	Promoting transparency, accountability and integrity in public service	Colombia
2017	AUTOMATED PASSENGER CLEARANCE SYSTEM AT RWANDA BUSIEST LAND BORDER POST	DIRECTORATE GENERAL OF IMMIGRATION AND EMIGRATION	Promoting transparency, accountability and integrity in public service	Rwanda

[ source: <https://publicadministration.un.org/en/Research/Case-Studies/unpsacases> ]

# OECD OPSI Case Studies



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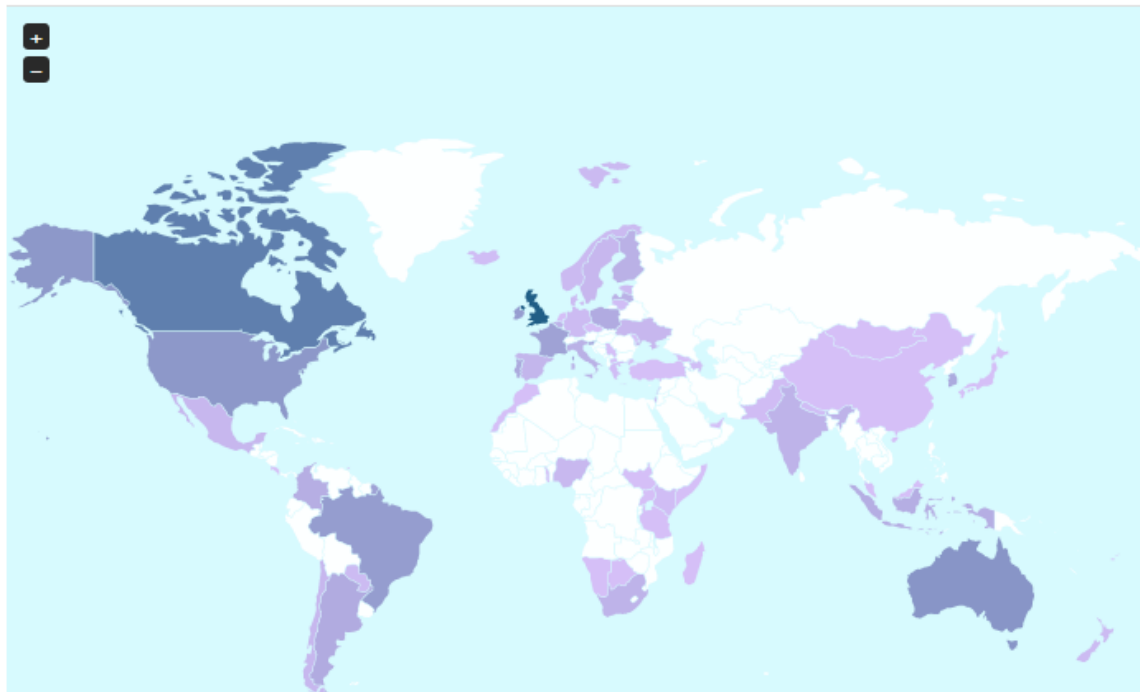
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Total cases: 339

Search results: 339



## Filter innovations:

Countries

Level of government

Sector

Year of launch

Stage of innovation

Recognition

Innovation Tags

Clear All Filters

[ source: [https://oecd-opsi.org/case\\_type/opsi/](https://oecd-opsi.org/case_type/opsi/) ]

# OGP citizengage



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PLACES

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CIVIC SPACE

EDUCATION

GENDER

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# Apolitical solution articles

Education Policy

Clean Energy and  
Environmental Policy

Deep Dives

Refugees, Migration and  
Integration

Resilient Rural Communities

The Future of Government

Innovative Public  
Partnerships

Data for Impact

Inclusive Growth

Violence Prevention

Early Childhood

Filters



List / Government jobs: 5 major misconceptions

A lot of what you thought you knew about government is wrong



Opinion / Standing for women's rights in war zones just got harder

Opinion: War is rife with sexual violence — closing our eyes won't change that



Analysis / Scaling: What to do when the evidence disappoints

Listening to data is necessary, even when it has bad news





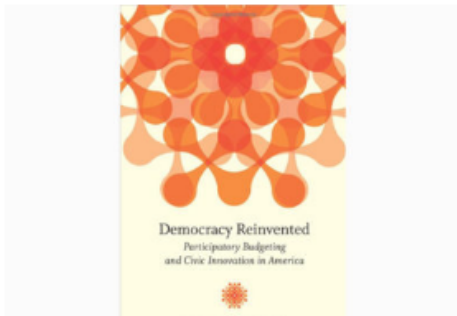
# Shareable resources



CITIES

## What do super yachts and sharing have in common?

Neal Gorenflo | April 1, 2019



COMMONS | ISOLATION

## Q&A: How civic governance innovation can increase engagement

## Governance HOW-TOs



CITIES

## How to Improve Your Community's Internet Connectivity

Institute for Local Self-Reliance  
September 7, 2016

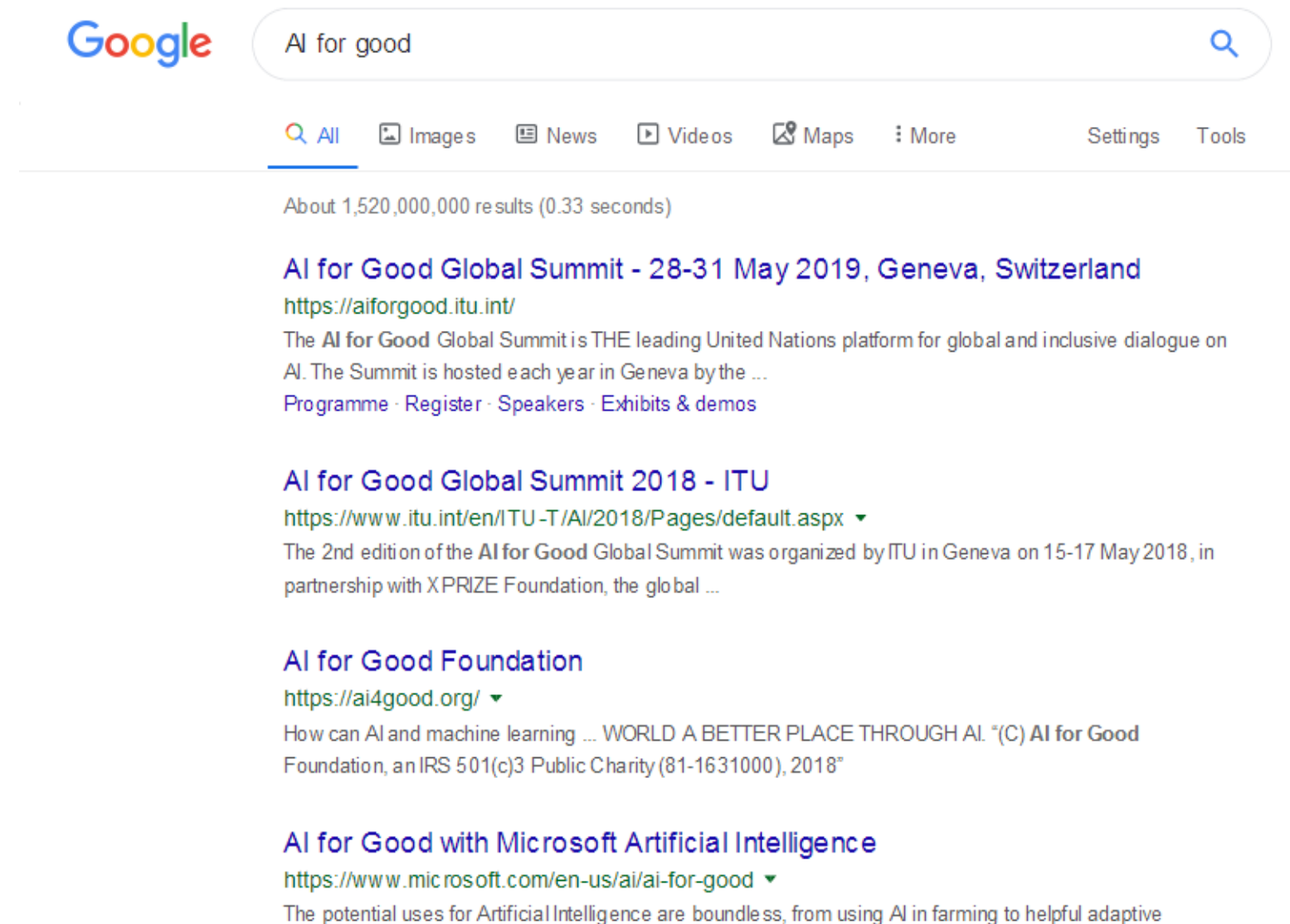


CITIES

## How to Negotiate a Community Benefits Agreement

NINA IGNACZAK

# AI for good



The image shows a Google search interface. At the top left is the Google logo. The search bar contains the text "AI for good" and a magnifying glass icon. Below the search bar is a navigation bar with icons for "All", "Images", "News", "Videos", "Maps", "More", "Settings", and "Tools". The search results are displayed below, showing "About 1,520,000,000 results (0.33 seconds)". There are four search results listed, each with a title, a URL, and a brief description.

Google

AI for good

All Images News Videos Maps More Settings Tools

About 1,520,000,000 results (0.33 seconds)

**AI for Good Global Summit - 28-31 May 2019, Geneva, Switzerland**  
<https://aiforgood.itu.int/>  
The AI for Good Global Summit is THE leading United Nations platform for global and inclusive dialogue on AI. The Summit is hosted each year in Geneva by the ...  
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**AI for Good Global Summit 2018 - ITU**  
<https://www.itu.int/en/ITU-T/AI/2018/Pages/default.aspx> ▾  
The 2nd edition of the AI for Good Global Summit was organized by ITU in Geneva on 15-17 May 2018, in partnership with XPRIZE Foundation, the global ...

**AI for Good Foundation**  
<https://ai4good.org/> ▾  
How can AI and machine learning ... WORLD A BETTER PLACE THROUGH AI. "(C) AI for Good Foundation, an IRS 501(c)3 Public Charity (81-1631000), 2018"

**AI for Good with Microsoft Artificial Intelligence**  
<https://www.microsoft.com/en-us/ai/ai-for-good> ▾  
The potential uses for Artificial Intelligence are boundless, from using AI in farming to helpful adaptive

[ source: <https://www.google.com/search?q=AI+for+good> ]

# big data for good



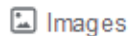
big data for good



All



News



Images



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About 4,240,000,000 results (0.35 seconds)

## Bloomberg's Data Initiative: Big Data For Social Good In 2018 - Forbes

<https://www.forbes.com/.../bloombergs-data-initiative-big-data-for-social-good-in-2018...>

Jan 2, 2018 - **Big data** has become ubiquitous in recent years. Whether it is data-driven marketing, sports analytics, political campaigns, or national security ...

## Five projects that are harnessing big data for good - The Conversation

[theconversation.com/five-projects-that-are-harnessing-big-data-for-good-104844](https://theconversation.com/five-projects-that-are-harnessing-big-data-for-good-104844)

Nov 1, 2018 - **Data** science has boomed over the past decade, following advances in mathematics, computing capability, and **data** storage. Australia's Industry 4.0 taskforce is busy exploring ways to improve the Australian economy with tools such as artificial intelligence, machine learning and **big data** analytics.

## GSMA GSMA - Big Data for Social Good

<https://www.gsma.com/betterfuture/bd4sg>

Mobile operators can help provide that information, while respecting individuals' privacy and safeguarding personal **data**. Through the GSMA, mobile operators are establishing a common framework and ecosystem approach that can support strategic planning, decision-making and support ...

## Free Online Course: Big Data for Better Performance from ...

<https://www.classcentral.com> > Subjects > Data Science > Big Data

[ source: <https://www.google.com/search?q=big+data+for+good> ]



# blockchain for good



blockchain for good



All



Images



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Videos



Maps



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Tools

About 136,000,000 results (0.34 seconds)

## Blockchain For Good BC4G

<https://www.blockchainforgood.com/> ▼

Blockchain For Good (BC4G) - founded by Cecile Baird in 2015 - is an industry think tank which brings together the greatest minds around the world to explore ...

## Blockchain for Social Good - IBM Blockchain

<https://www.ibm.com/blockchain/for-good> ▼

IBM believes in the power of **blockchain** beyond just business by using **blockchain** technology for social good. Join industry innovators and leading ...

## How the "Blockchain for Good" Promise can Become a Reality - Forbes

<https://www.forbes.com/.../how-the-blockchain-for-good-promise-can-become-a-reali...> ▼

Nov 25, 2018 - In this article, we examine various charitable initiatives that use **blockchain** as a force for good and how various initiatives such as the ...

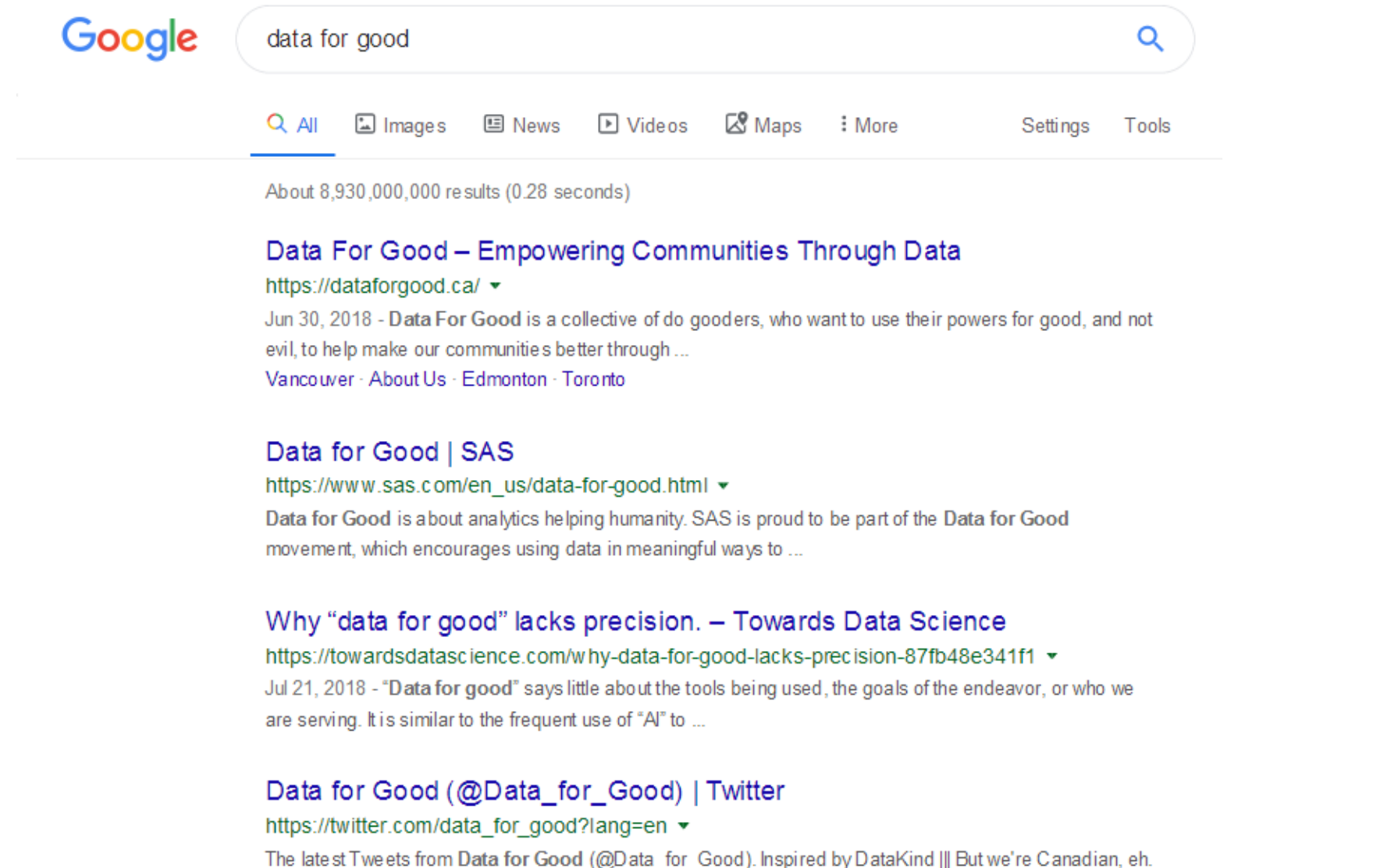
## (PDF) Blockchain for Good? - ResearchGate

[https://www.researchgate.net/publication/319155052\\_Blockchain\\_for\\_Good](https://www.researchgate.net/publication/319155052_Blockchain_for_Good)

Our overview of these initiatives suggests that **blockchain** technology is being applied in ways that could transform this ambition for good into a practical reality.

[ source: <https://www.google.com/search?q=blockchain+for+good> ]

# data for good



The image shows a Google search interface. At the top left is the Google logo. The search bar contains the text "data for good" and a magnifying glass icon. Below the search bar are navigation links: "All", "Images", "News", "Videos", "Maps", "More", "Settings", and "Tools". The search results show "About 8,930,000,000 results (0.28 seconds)". The first result is "Data For Good – Empowering Communities Through Data" with a URL "https://dataforgood.ca/". The second result is "Data for Good | SAS" with a URL "https://www.sas.com/en\_us/data-for-good.html". The third result is "Why 'data for good' lacks precision. – Towards Data Science" with a URL "https://towardsdatascience.com/why-data-for-good-lacks-precision-87fb48e341f1". The fourth result is "Data for Good (@Data\_for\_Good) | Twitter" with a URL "https://twitter.com/data\_for\_good?lang=en".

Google

data for good

All Images News Videos Maps More Settings Tools

About 8,930,000,000 results (0.28 seconds)

**Data For Good – Empowering Communities Through Data**  
<https://dataforgood.ca/>

Jun 30, 2018 - **Data For Good** is a collective of do gooders, who want to use their powers for good, and not evil, to help make our communities better through ...  
[Vancouver](#) · [About Us](#) · [Edmonton](#) · [Toronto](#)

**Data for Good | SAS**  
[https://www.sas.com/en\\_us/data-for-good.html](https://www.sas.com/en_us/data-for-good.html)

**Data for Good** is about analytics helping humanity. SAS is proud to be part of the **Data for Good** movement, which encourages using data in meaningful ways to ...

**Why “data for good” lacks precision. – Towards Data Science**  
<https://towardsdatascience.com/why-data-for-good-lacks-precision-87fb48e341f1>

Jul 21, 2018 - “**Data for good**” says little about the tools being used, the goals of the endeavor, or who we are serving. It is similar to the frequent use of “AI” to ...

**Data for Good (@Data\_for\_Good) | Twitter**  
[https://twitter.com/data\\_for\\_good?lang=en](https://twitter.com/data_for_good?lang=en)

The latest Tweets from **Data for Good (@Data\_for\_Good)**. Inspired by DataKind ||| But we're Canadian, eh.

[ source: <https://www.google.com/search?q=data+for+good> ]

# drones for good



drones for good



All



Images



News



Videos



Maps



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About 194,000,000 results (0.46 seconds)

## Drones for Good Award - Dubai Future Foundation

<https://www.dubaifuture.gov.ae/en/our-initiatives/drones-for-good-award/>

7 days ago - Drones for Good Award. The UAE has become a global platform for the use of future technology for peaceful purposes and employing them in the service of humanity, stated His Excellency Mohammed Al Gergawi, Minister of Cabinet Affairs and Chairman of the Organising Committee of the UAE Drones for Good Award.

## Videos



Nokia Saving Lives  
wins the UAE  
Drones for Good  
Award



Drones for Good



Nokia Saving Lives  
wins the UAE  
Drones for Good  
Award



[ source: <https://www.google.com/search?q=drones+for+good> ]

# ICT for good

The image shows a Google search interface. At the top left is the Google logo. The search bar contains the text "ICT for good" and a magnifying glass icon. Below the search bar are navigation links: "All", "Images", "Videos", "News", "Maps", "More", "Settings", and "Tools". The search results are displayed below a horizontal line. The first result is "ICT for Social Good" with the URL "ictforsocialgood.org/en/" and a description dated May 4, 2017. The second result is "Tech for Good: The Role of ICT in Achieving the SDGs - edX" with the URL "https://www.edx.org/course/tech-for-good-the-role-of-ict-in-achieving-the-sdgs" and a description about digital technologies. The third result is "ICT for Good - FBK: ICT - Fondazione Bruno Kessler" with the URL "https://ict.fbk.eu/units/ict4g/" and a description about ICT4G. The fourth result is "ICT FOR DEVELOPMENT AND SOCIAL GOOD - Ong 2.0" with the URL "www.ong2zero.org/en/master/" and a description about international agencies and non-profit organizations.

Google

ICT for good

All Images Videos News Maps More Settings Tools

About 248,000,000 results (0.34 seconds)

**ICT for Social Good**  
[ictforsocialgood.org/en/](https://ictforsocialgood.org/en/) ▾  
May 4, 2017 - ICT for Social Good wants to know, value and sustain those many projects, realities and innovative ideas created with a bottom-up approach.

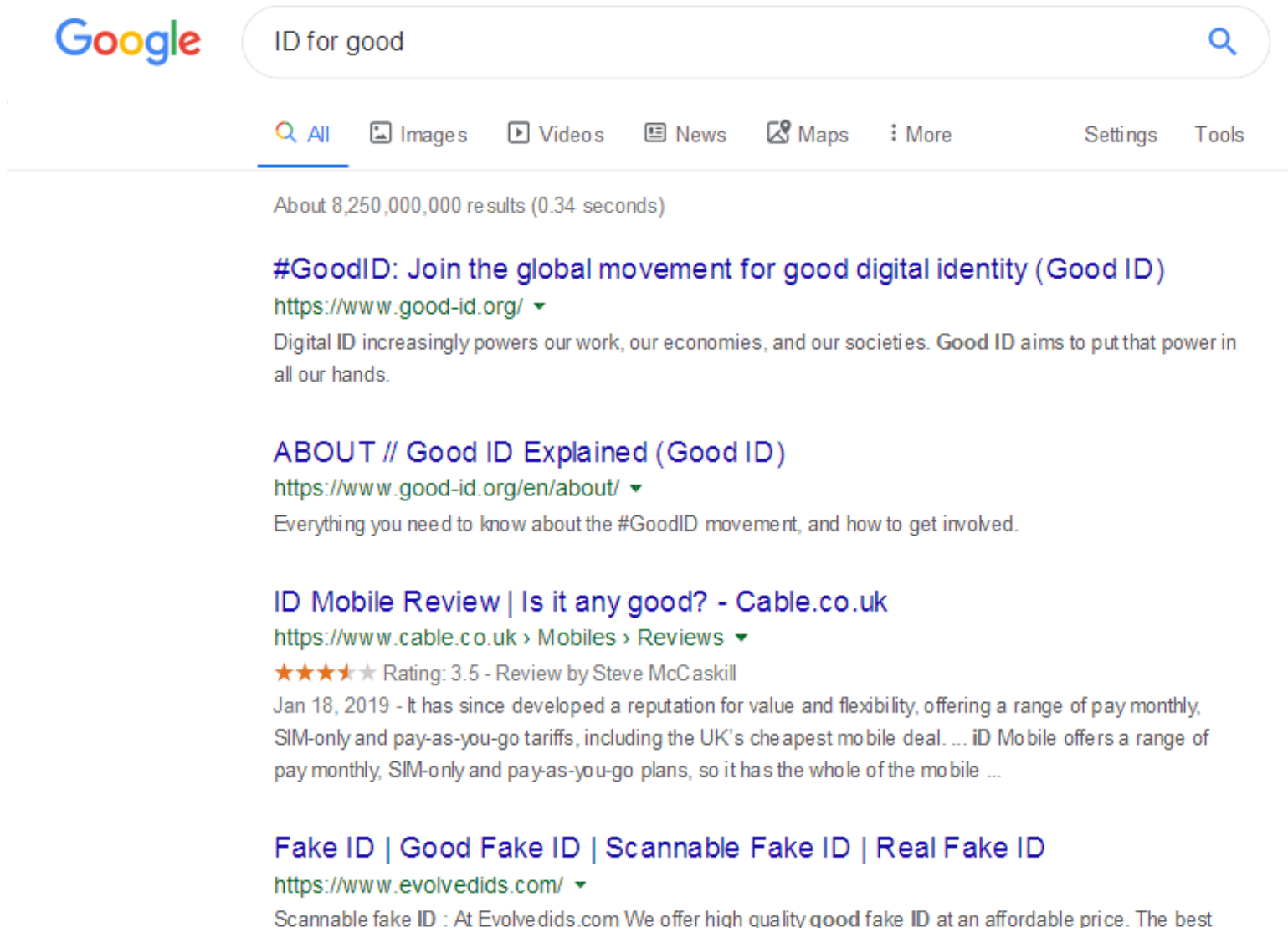
**Tech for Good: The Role of ICT in Achieving the SDGs - edX**  
<https://www.edx.org/course/tech-for-good-the-role-of-ict-in-achieving-the-sdgs> ▾  
△This course has ended and is archived. ... What opportunities and challenges do digital technologies present for the development of our society? ... 深圳市恒宇博科技有限公司 粤ICP备17044299号-2.

**ICT for Good - FBK: ICT - Fondazione Bruno Kessler**  
<https://ict.fbk.eu/units/ict4g/> ▾  
ICT4G (ICT for Social Good) aims at making a difference using ICTs to contribute to the achievement of goal 2 ("zero hunger") and goal 10 ("reduced ...

**ICT FOR DEVELOPMENT AND SOCIAL GOOD - Ong 2.0**  
[www.ong2zero.org/en/master/](http://www.ong2zero.org/en/master/) ▾  
International agencies and non-profit organisations are increasingly looking for project managers and development professionals who have excellent ...

[ source: <https://www.google.com/search?q=ICT+for+good> ]

# ID for good



The image shows a Google search interface. At the top left is the Google logo. The search bar contains the text "ID for good" and a magnifying glass icon. Below the search bar are navigation links: "All", "Images", "Videos", "News", "Maps", "More", "Settings", and "Tools". The search results show "About 8,250,000,000 results (0.34 seconds)". The first result is "#GoodID: Join the global movement for good digital identity (Good ID)" with a URL "https://www.good-id.org/". The second result is "ABOUT // Good ID Explained (Good ID)" with a URL "https://www.good-id.org/en/about/". The third result is "ID Mobile Review | Is it any good? - Cable.co.uk" with a URL "https://www.cable.co.uk > Mobiles > Reviews" and a rating of 3.5 stars. The fourth result is "Fake ID | Good Fake ID | Scannable Fake ID | Real Fake ID" with a URL "https://www.evolvedids.com/".

Google

ID for good

All Images Videos News Maps More Settings Tools

About 8,250,000,000 results (0.34 seconds)

**#GoodID: Join the global movement for good digital identity (Good ID)**  
<https://www.good-id.org/>

Digital ID increasingly powers our work, our economies, and our societies. Good ID aims to put that power in all our hands.

**ABOUT // Good ID Explained (Good ID)**  
<https://www.good-id.org/en/about/>

Everything you need to know about the #GoodID movement, and how to get involved.

**ID Mobile Review | Is it any good? - Cable.co.uk**  
<https://www.cable.co.uk > Mobiles > Reviews>

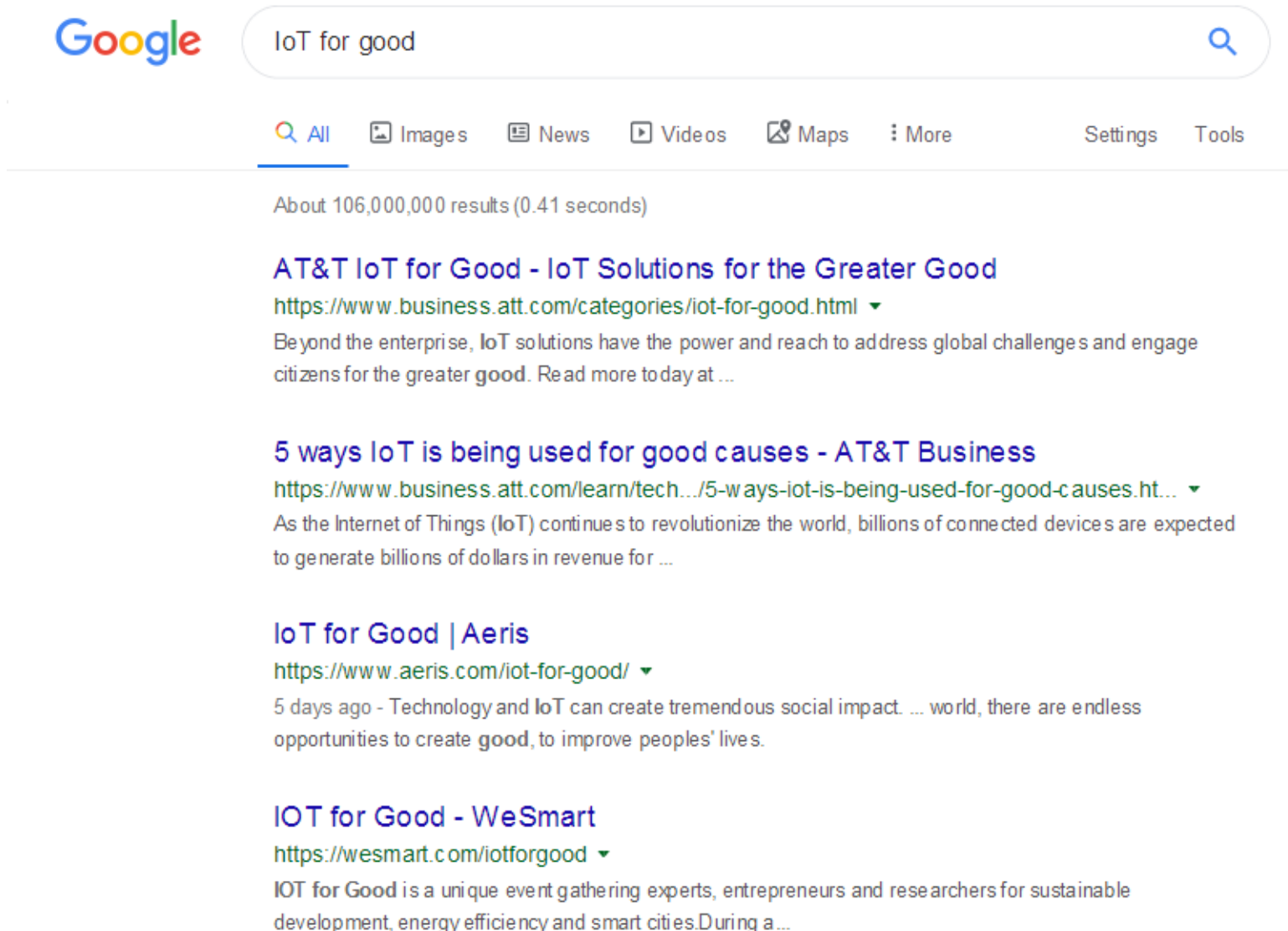
★★★★★ Rating: 3.5 - Review by Steve McCaskill  
Jan 18, 2019 - It has since developed a reputation for value and flexibility, offering a range of pay monthly, SIM-only and pay-as-you-go tariffs, including the UK's cheapest mobile deal. ... ID Mobile offers a range of pay monthly, SIM-only and pay-as-you-go plans, so it has the whole of the mobile ...

**Fake ID | Good Fake ID | Scannable Fake ID | Real Fake ID**  
<https://www.evolvedids.com/>

Scannable fake ID : At Evolvedids.com We offer high quality good fake ID at an affordable price. The best

[ source: <https://www.google.com/search?q=ID+for+good> ]

# IoT for good



The image shows a Google search interface. At the top left is the Google logo. To its right is a search bar containing the text "IoT for good" and a magnifying glass icon. Below the search bar is a navigation bar with links for "All", "Images", "News", "Videos", "Maps", "More", "Settings", and "Tools". The "All" link is underlined. Below the navigation bar, the search results are displayed. The first result is titled "AT&T IoT for Good - IoT Solutions for the Greater Good" with a URL starting with "https://www.business.att.com/categories/iot-for-good.html". The second result is titled "5 ways IoT is being used for good causes - AT&T Business" with a URL starting with "https://www.business.att.com/learn/tech.../5-ways-iot-is-being-used-for-good-causes.ht...". The third result is titled "IoT for Good | Aeris" with a URL starting with "https://www.aeris.com/iot-for-good/". The fourth result is titled "IOT for Good - WeSmart" with a URL starting with "https://wesmart.com/iotforgood".

Google

IoT for good

All Images News Videos Maps More Settings Tools

About 106,000,000 results (0.41 seconds)

**AT&T IoT for Good - IoT Solutions for the Greater Good**  
<https://www.business.att.com/categories/iot-for-good.html> ▼  
Beyond the enterprise, IoT solutions have the power and reach to address global challenges and engage citizens for the greater good. Read more today at ...

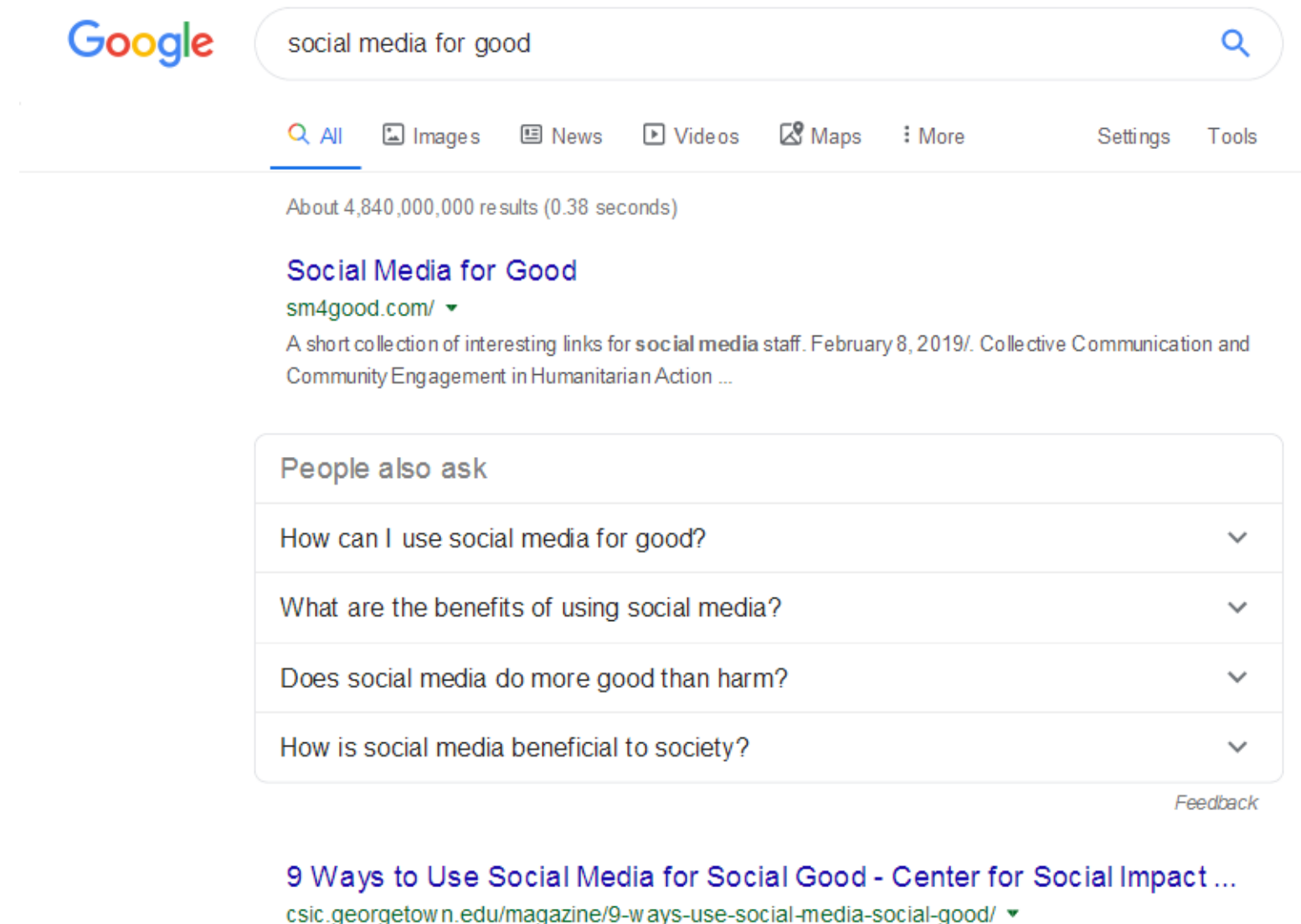
**5 ways IoT is being used for good causes - AT&T Business**  
<https://www.business.att.com/learn/tech.../5-ways-iot-is-being-used-for-good-causes.ht...> ▼  
As the Internet of Things (IoT) continues to revolutionize the world, billions of connected devices are expected to generate billions of dollars in revenue for ...

**IoT for Good | Aeris**  
<https://www.aeris.com/iot-for-good/> ▼  
5 days ago - Technology and IoT can create tremendous social impact. ... world, there are endless opportunities to create good, to improve peoples' lives.

**IOT for Good - WeSmart**  
<https://wesmart.com/iotforgood> ▼  
IOT for Good is a unique event gathering experts, entrepreneurs and researchers for sustainable development, energy efficiency and smart cities. During a ...

[ source: <https://www.google.com/search?q=IoT+for+good> ]

# social media for good



The image shows a Google search interface. At the top left is the Google logo. The search bar contains the text "social media for good" and a magnifying glass icon. Below the search bar are navigation links: "All", "Images", "News", "Videos", "Maps", "More", "Settings", and "Tools". The search results show "About 4,840,000,000 results (0.38 seconds)". The first result is titled "Social Media for Good" with the URL "sm4good.com/". The description reads: "A short collection of interesting links for social media staff. February 8, 2019/. Collective Communication and Community Engagement in Humanitarian Action ...". Below the results is a "People also ask" section with four questions, each with a dropdown arrow: "How can I use social media for good?", "What are the benefits of using social media?", "Does social media do more good than harm?", and "How is social media beneficial to society?". At the bottom right of this section is a "Feedback" link. Below the "People also ask" section is another search result titled "9 Ways to Use Social Media for Social Good - Center for Social Impact ..." with the URL "csic.georgetown.edu/magazine/9-ways-use-social-media-social-good/".

[ source: <https://www.google.com/search?q=social+media+for+good> ]



# VR for good



VR for good



All



Images



Videos



News



Maps



More

Settings

Tools

About 590,000,000 results (0.52 seconds)

## Oculus VR for Good

[https://www.oculus.com/vr-for-good/?locale=en\\_US](https://www.oculus.com/vr-for-good/?locale=en_US)

Virtual reality is one of the fastest-growing parts of the tech industry, and has the potential to transform education, improve productivity, advance social ...

Creators Lab · Launch Pad · High School 360 Challenge · 1.0

## Videos



VR for Good



Oculus VR for  
Good | Creators  
Lab



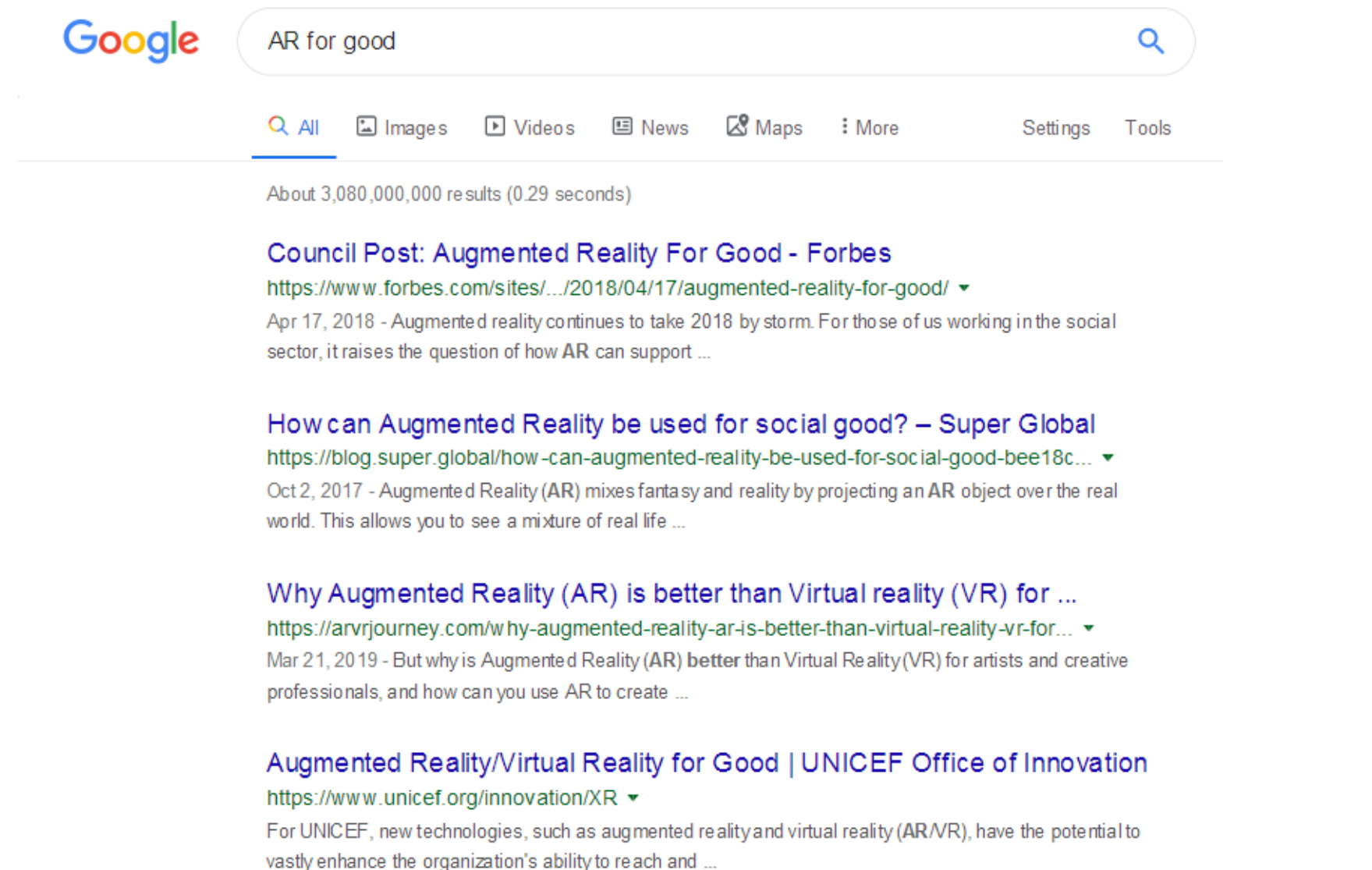
OC4 | VR for Good



[ source: <https://www.google.com/search?q=VR+for+good> ]



# AR for good



The image shows a Google search interface. At the top left is the Google logo. The search bar contains the text "AR for good" and a magnifying glass icon. Below the search bar are navigation links: "All", "Images", "Videos", "News", "Maps", "More", "Settings", and "Tools". The search results are displayed below a horizontal line. The first result is from Forbes, titled "Council Post: Augmented Reality For Good - Forbes", with a URL starting with "https://www.forbes.com/sites/.../2018/04/17/augmented-reality-for-good/". The second result is from Super Global, titled "How can Augmented Reality be used for social good? – Super Global", with a URL starting with "https://blog.super.global/how-can-augmented-reality-be-used-for-social-good-bee18c...". The third result is from arvrjourney.com, titled "Why Augmented Reality (AR) is better than Virtual reality (VR) for ...", with a URL starting with "https://arvrjourney.com/why-augmented-reality-ar-is-better-than-virtual-reality-vr-for...". The fourth result is from UNICEF, titled "Augmented Reality/Virtual Reality for Good | UNICEF Office of Innovation", with a URL starting with "https://www.unicef.org/innovation/XR".

Google

AR for good

All Images Videos News Maps More Settings Tools

About 3,080,000,000 results (0.29 seconds)

**Council Post: Augmented Reality For Good - Forbes**  
<https://www.forbes.com/sites/.../2018/04/17/augmented-reality-for-good/> ▼  
Apr 17, 2018 - Augmented reality continues to take 2018 by storm. For those of us working in the social sector, it raises the question of how AR can support ...

**How can Augmented Reality be used for social good? – Super Global**  
<https://blog.super.global/how-can-augmented-reality-be-used-for-social-good-bee18c...> ▼  
Oct 2, 2017 - Augmented Reality (AR) mixes fantasy and reality by projecting an AR object over the real world. This allows you to see a mixture of real life ...

**Why Augmented Reality (AR) is better than Virtual reality (VR) for ...**  
<https://arvrjourney.com/why-augmented-reality-ar-is-better-than-virtual-reality-vr-for...> ▼  
Mar 21, 2019 - But why is Augmented Reality (AR) better than Virtual Reality (VR) for artists and creative professionals, and how can you use AR to create ...

**Augmented Reality/Virtual Reality for Good | UNICEF Office of Innovation**  
<https://www.unicef.org/innovation/XR> ▼  
For UNICEF, new technologies, such as augmented reality and virtual reality (AR/VR), have the potential to vastly enhance the organization's ability to reach and ...

[ source: <https://www.google.com/search?q=AR+for+good> ]

thank you :-)

# Public Sector Innovation for Open Government

Dimitris Gouscos ([gouscos@media.uoa.gr](mailto:gouscos@media.uoa.gr))

Regional Workshop on Open Government and Emerging Technologies  
in the Arab Region

*organized by UN ESCWA under the Patronage of Her Excellency, the Minister of  
State for Administrative Reform in Lebanon, Dr. May Chediac*

Beirut, Lebanon, July 2019