



REPUBLIK ÖSTERREICH  
Parlament

# „Artificial intelligence“ in legislative document management

**03.-05. 12. 2018 Geneva**  
**World e-Parliament conference**  
Parliaments, technology and innovation / #eParliament

# Agenda

**TOP 1 – motivation**

**TOP 2 – owl / 360°**

**TOP 3 – POC**

**TOP 4 – summary / what's next**



# TOP 1 - MOTIVATION



**Service:** ['s&r-v&s]

*1: the occupation or function of serving*

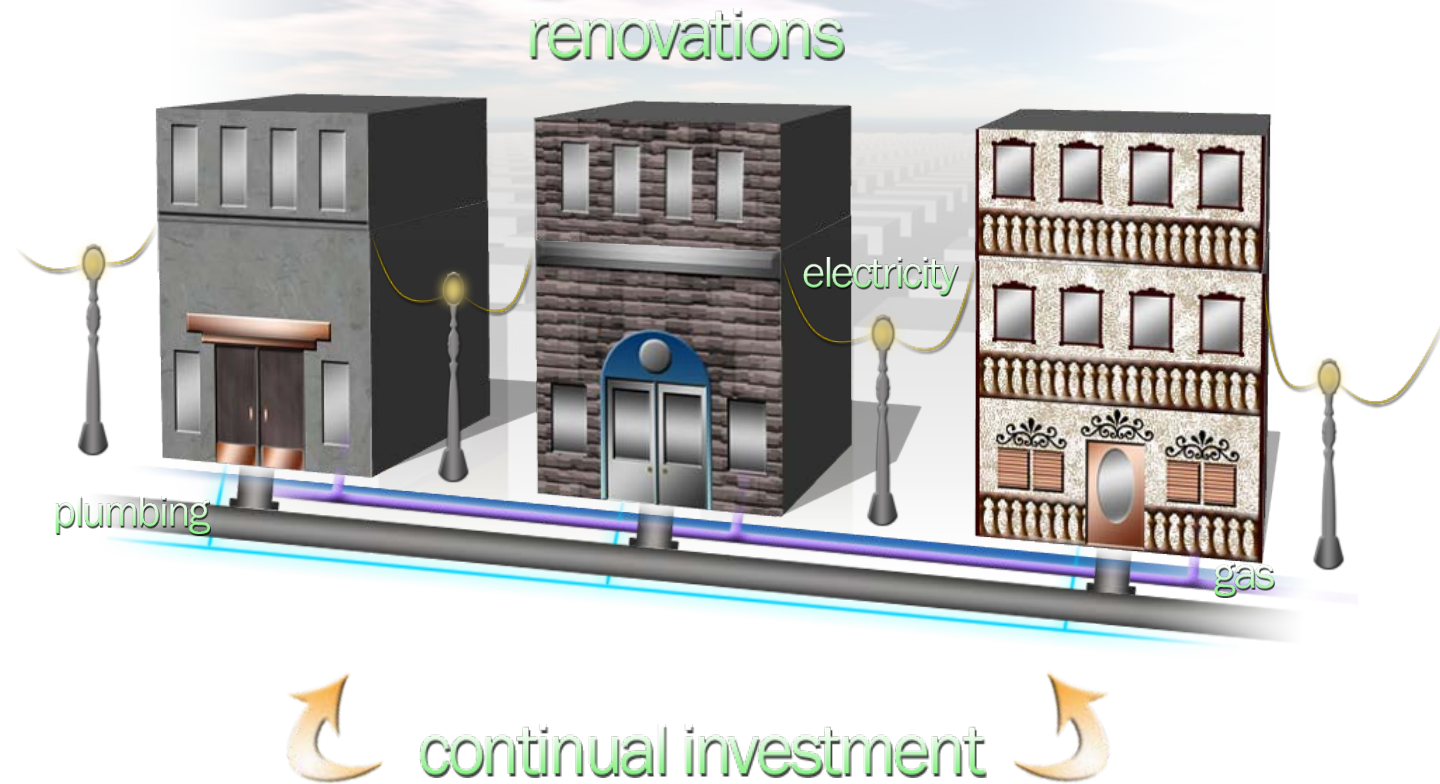
*2: the work performed by one that serves*

“It is not the strongest of the species that survive,  
nor the most intelligent,  
but the ones most responsive to change!”

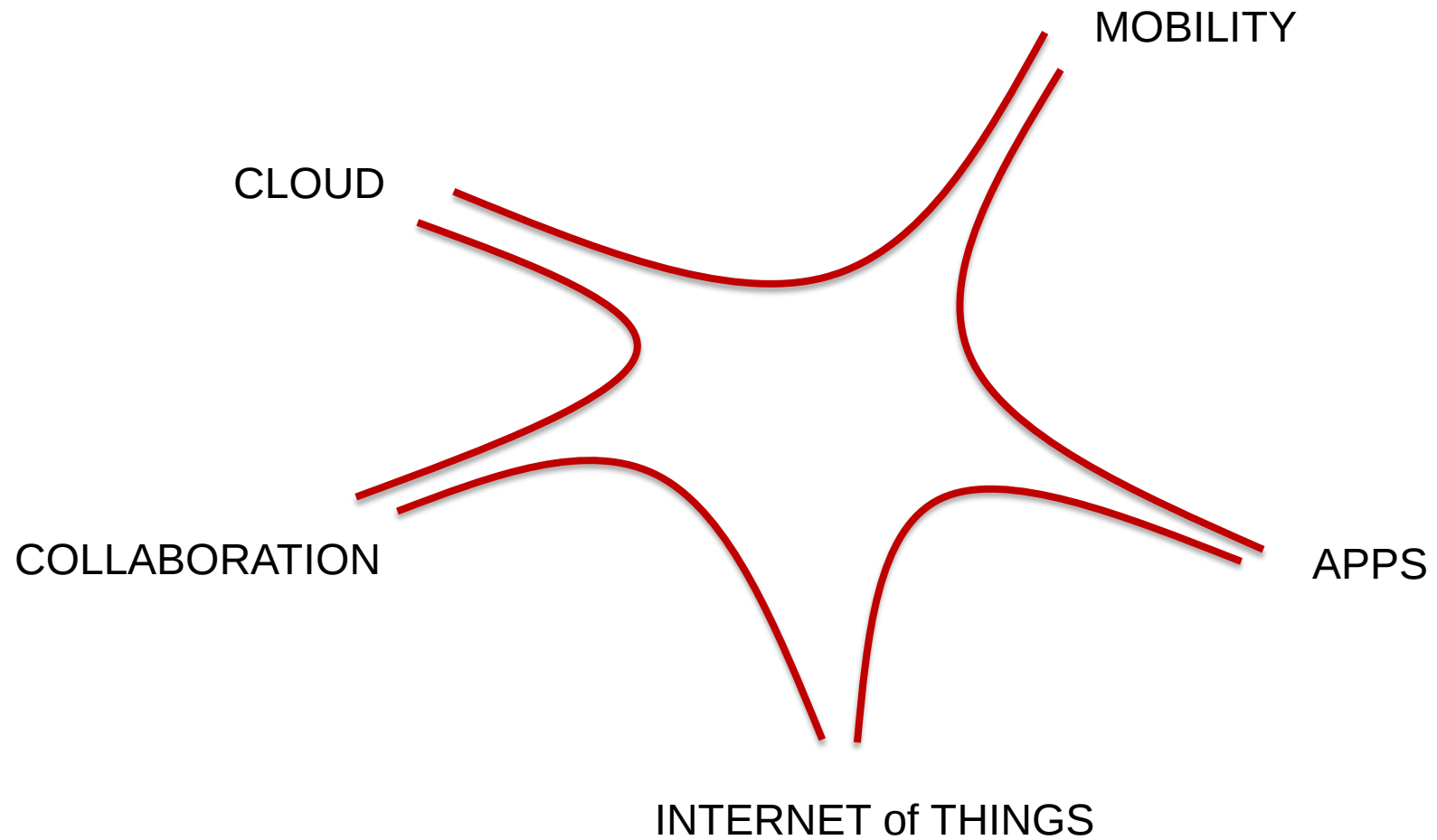
***Charles Darwin***



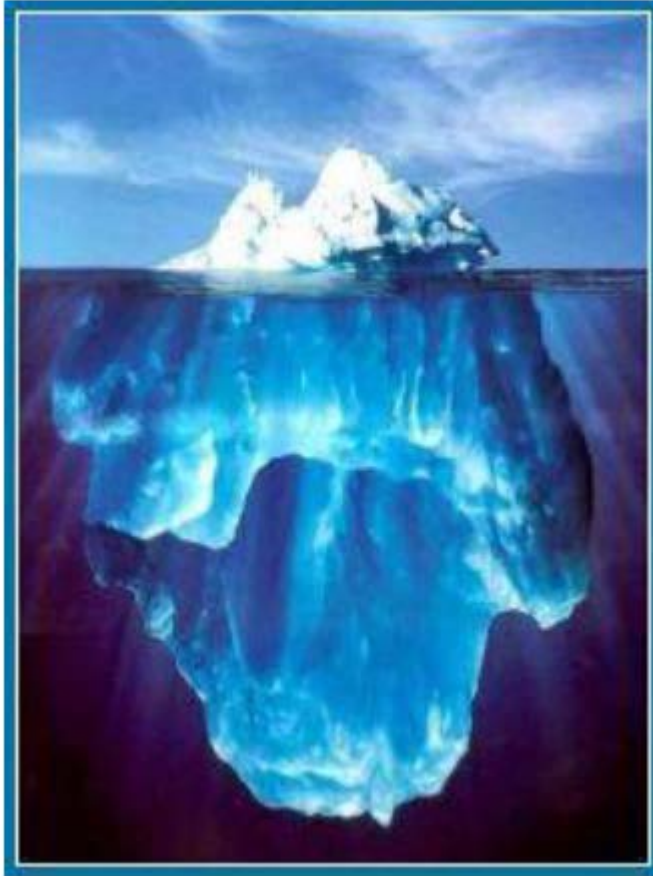
# How Cities Evolve



# Dimensions



# Food for thought ...



30%

Computer / Server  
Software / Technical

70%

Leadership,  
Organisation,  
Access,  
Learning,  
Support,  
Security,  
Re-Engineering of  
Business Processes

...



# Identifying relevant Technologies/areas

- Big data
- Robotics, Chat bots, AI
- Smart building
- 3D printing
- Network sensors, IoT
- VR og AR
- Blockchain
- Gameification





**TOP 2 – OWL / 360°**



Open the tab to explore the most recently found news articles and posts in your "Profildienst" – your personal page(s) to monitor the appearance of your name or organization unit in traditional (print, online news, broadcasting) and social media.



wsa18



## Profildienst

Scroll to get a quick 360° degree overview of hot topics in the traditional NEWS (print, online, broadcasting), trending topics in social media and the latest available expert info for all 8 EULE MediaMonitor policy areas.



### TopThemen.NEWS

Alle Parlementsdirection  
BVT Sanierung Bundesrat  
NR-Präsidium

### SocialMedia.TRENDS

Parlament Demokratie Volksbegehren  
U-Ausschuss Kurz Wahlrecht

### Fach.INFOs

**BVT-Untersuchungsausschuss:  
Entscheidung des VfGH vom 14.9.2018**  
VfGH • VOR 4 STUNDE(N)



### TopThemen.NEWS

Alle Lohnverhandlungen Job-  
Gipfel Kassenreform

### SocialMedia.TRENDS

Sozialversicherung Reform Kurz  
Sozialversicherungen AUVA  
#Sozialversicherung

### Fach.INFOs

**Aktuelle Arbeitsmarktlage August  
2018**  
BMASK • VOR 6 STUNDE(N)



### TopThemen.NEWS

Alle OECD-Studie  
Urheberrecht Schule & Islam

### SocialMedia.TRENDS

Urheberrecht Filter EU-Parlament  
Upload-Filter Bildung Kultur

### Fach.INFOs

**Situation of young people in the  
European Union**  
EU-KOMMISSION • VOR 5 STUNDE(N)



Discover last week's print or online articles containing your or your organization's name (NEWS) and find out what people wrote about you on Twitter, Facebook & Co (TRENDS).

**Profilisten**

**Parlament & Demokratie**

**Arbeit, Gesundheit & Soziales**

**Bildung, Wissenschaft & Kultur**

**Budget & Finanzen**

**EU & Außenpolitik**

**Inneres, Justiz & Landesverordnung**

**Umwelt & Landwirtschaft**

**Wirtschaft, Innovation & Infrastruktur**

**WSA**

# NEWS

Alle Artikel

**WSA Global Congress. Digital. Global. Sozial**

Das Lösen gesellschaftlicher Probleme in den Bereichen Bildung, Gesundheit, Inklusion oder Umwelt steht im Zentrum. Der internationale Event bietet eine gute Möglichkeit neue Einsichten ...

**FALTER.AT** • VOR 20 STUNDEN

**Internationale Start-up-Szene bei Forschungpreis**

Am Donnerstagabend versammelte sich im Weltmuseum Wien ein Teil der internationalen Start-up-Szene um die diesjährigen Gewinner des Josef Umdasch Forschungspreises zu feiern. Durch die Awardshow ...

**DIE PRESSE.COM** • VOR 20 STUNDEN

# TRENDS

DASHBOARD →

<http://twitter.com/CHAOSarchitects/status/1040596750187343872>

<http://twitter.com/allworldhealth/status/1040555770964848640>

<http://twitter.com/heldikat/status/1040468943142440960>

<http://twitter.com/BenBrabyn/status/1040470412277297152>

<http://twitter.com/BusinessTas/status/1040475098992594944>

Save the article in your fav list or delete it – we will receive a notification and adjust the search profile if necessary.

Open the Dashboard to view all Social Media posts and related influencer, geographical and channel analyses (30 days). Please note that all dashboards are optimized for desktop view.

Go directly to the most recently found social media posts – we search public profiles on Twitter, Facebook, Google+, Youtube, LinkedIn, Flickr, Foursquare, Instagram, Mixcloud, Soundcloud, Vimeo, Dailymotion, Weibo, VKontakte, Pinterest, Vine, a range of blogs and popular online forums.



View NEWS (Print, Online, Broadcast), TRENDS (Social Media) and INFOS (latest reports, papers, stats and more) for one of 8 policy areas – for example Environment & Agriculture (Umwelt & Landwirtschaft).



Profidienst



Parlament & Demokratie



Arbeit, Gesundheit & Soziales



Bildung, Wissenschaft & Kultur



Budget & Finanzen



EU & Außenpolitik



Inneres, Justiz & Landesverteidigung



Umwelt & Landwirtschaft



Wirtschaft, Innovation & Infrastruktur

## NEWS

Alle Artikel Klima Energiewende Wolf

### Plastic pollution: Scientists identify two more potential 'garbage patch' zones in world's oceans

An attempt to locate millions of tons of "missing" plastic in the world's oceans has thrown up two locations that may contain enormous, previously unreported patches of debris. ...

INDEPENDENT.CO.UK • VOR 4 TAGE(N)



### Ökostreifen gegen die Flut

KLIMA

„Das hat es bei uns noch nie gegeben, dass Wasser auf Äckern und Feldern so hoch gestanden hat, dass der Turnsaal bei der Volksschule Eitweg, gleich zweimal überschwemmt worden ist“, sagt Bürgermeister ...

KRONEN ZEITUNG • VOR 4 TAGE(N)

Filter available news articles for this week's hot topics – here climate change (Klima), energy transition (Energiewende) or the resettlement of wolves (Wolf).

## TRENDS

DASHBOARD →

|                |                                       |              |
|----------------|---------------------------------------|--------------|
| TOP INFLUENCER | Florian Klenk (@florianklenk)         | 933 + 212618 |
| TOP INFLUENCER | Elisabeth Köstinger (@EliiKoestinger) | 299 + 10064  |
| TOP INFLUENCER | David (@davsow)                       | 235 + 1462   |
| TOP INFLUENCER | Sophie Lampl (@SophieLampl)           | 105 + 985    |

Open the Dashboard to view all Social Media posts and related influencer and trending topics analyses. Please note that all dashboards are optimized for desktop view.

## INFOS

### The State of Food Security and Nutrition in the World

KLIMA

Bericht der Ernährungs- und Landwirtschaftsorganisation der Vereinten Nationen: Klimawandel als einer der Hauptgründe für steigenden Welthunger (Rom, 2018)

FAO • VOR 4 TAGE(N)

Scroll down to see more NEWS, TRENDS – and all INFOS.

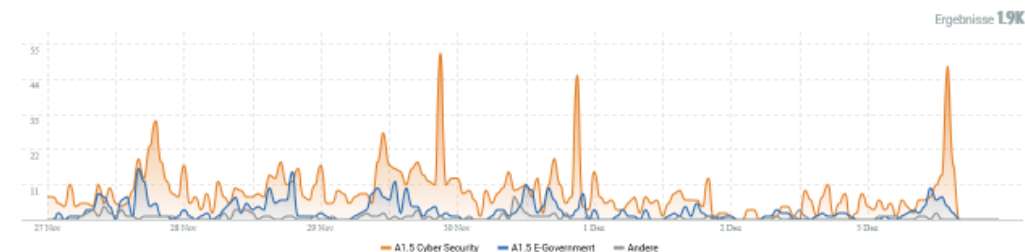


| TOP THEMEN                                                                                                                                       |                          |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|
| Begriffe, die in aktuellen Diskussionen zu 'Cyber Security', 'E-Government', 'Open Government' und 'Peter Reichstätter' am häufigsten vorkommen. |                          |                    |
| <b>Aufstrebende Themen</b>                                                                                                                       | <b>Abnehmende Themen</b> | <b>Neue Themen</b> |
| #Digitalisierung ↗ 100%                                                                                                                          | #GDPRCompliance ↘ 75%    | der DSGVO          |
| #cookies ↗ 100%                                                                                                                                  | LinkedIn ↘ 66.7%         | Service            |
| #Daten ↗ 100%                                                                                                                                    | Passwörter ↘ 66.7%       | Website            |
| Person ↗ 100%                                                                                                                                    | Übermittlung ↘ 60%       | Domain             |
| Behörden ↗ 66.7%                                                                                                                                 | #HandySignatur ↘ 36.4%   | problemlos         |

| TOP INFLUENCER                                                                                                                                                                                                                         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Analyse, wessen Posts das höchste Engagement zu den Themen "Cyber-Security", "E-Government", "Open Government" und "Peter Reichstätter" produziert haben. Das Engagement ist die Summe aller Likes, Kommentare und Shares eines Posts. |  |

| Platzierung | Influencer                           | Quellentyp | Posts     |         |         |         | Reichweite | Reichweite pro Beitrag | Engagement | Engagement pro Beitrag |
|-------------|--------------------------------------|------------|-----------|---------|---------|---------|------------|------------------------|------------|------------------------|
|             |                                      |            | Insgesamt | Positiv | Neutral | Negativ |            |                        |            |                        |
| 1           | vale.insane, instagram.com           | Instagram  | 1         | 0       | 1       | 0       | 0          | 0                      | 72         | 72                     |
| 2           | Digital City Wien (@DigitalCityWien) | Twitter    | 1         | 0       | 1       | 0       | 1.7K       | 1.7K                   | 33         | 33                     |
| 3           | ISPA_at (@ISPA_at)                   | Twitter    | 1         | 1       | 0       | 0       | 750        | 750                    | 21         | 21                     |
| 4           | jens zddk mimikama, mimikama.at      | Blogs      | 1         | 0       | 0       | 1       | 471.4K     | 471.4K                 | 16         | 16                     |
| 5           | DER STANDARD (@derStandardat)        | Twitter    | 3         | 0       | 3       | 0       | 909.8K     | 303.3K                 | 15         | 5                      |

| RESULTATE IM ZEITVERLAUF                                                                   |  |
|--------------------------------------------------------------------------------------------|--|
| zu den Themen "Cyber Security", "E-Government", "Open Government" und "Peter Reichstätter" |  |



| CYBER SECURITY                                                                                                          |          |
|-------------------------------------------------------------------------------------------------------------------------|----------|
| TOP ANZEIGEN: 5                                                                                                         | 10 25 50 |
| Alle Postings zu 'Cyber Security' sowie verwandten Begriffen verknüpft mit Beiträgen des Bundes. Chronologischer Ticker |          |

**Freedom of the Press** @FreedomofPress Link geteilt

Mexican officials have targeted journalists, human rights lawyers, and anticorruption activists with **malware**. "A change in **government** does not mean there will be a change in the context of impunity or aggressions against journalists." [nytimes.com/2018/11/27/wor...](https://nytimes.com/2018/11/27/wor...)

veröffentlicht am 27/11/18 um 20:27 | Twitter | USA | twitter.com

**ÄHNLICHE RESULTATE (ALLS)**

After Javier Valdez was murdered, the Mexican government seemingly sent phishing texts to his colleagues falsely claiming that his killers had been found. [nytimes.com/2018/11/27/wor...](https://nytimes.com/2018/11/27/wor...)

veröffentlicht am 27/11/18 um 22:00

Mexican officials have targeted journalists, human rights lawyers, and anticorruption activists with malware. "A change in government does not mean there will be a change in the context of impunity or aggressions against journalists." [nytimes.com/2018/11/27/wor...](https://nytimes.com/2018/11/27/wor...)

veröffentlicht am 28/11/18 um 15:21

Mehr laden

**Parliament will not interfere with PAC probe on 1MDB - Speaker**

editor hat einen Post erstellt

...Seri Najib Tun Razak to the **Parliamentary Privileges Committee** for **transpering** with the AG's report on 1MDB. The revelation on the **transpering** was made by PAC deputy chairman Wong Kah Woh who said...

**A1.5 Cyber Security**

73

284.2K

6/10

45 Retweets, 28 Twitter Likes, 284.2K Twitter Follower

**A1.5 Cyber Security**

N.A.

30K

30K Alexa Pageviews, 30K Alexa monthly unique visitors



# TOP 3 - POC



# Fake news

Link O1: <https://www.youtube.com/watch?v=cQ54GDm1eL0>

Link AI: <https://www.youtube.com/watch?v=AmUC4m6w1wo>

Link GE: <https://www.youtube.com/watch?v=ttGUIwfTYvg>

*Thank you Morten Lie / Gartner/SWE!*



## Intelligent



Advanced AI Techniques

Intelligent Apps  
and Analytics

Intelligent Things

## Digital



Digital Twin

Cloud to the Edge

Conversational Platforms

Immersive Experience

## Mesh



Blockchain

Event Driven Model

Continuous Adaptive  
Risk and Trust

**Gartner.**



# Complexity of Innovation

**Taste is learnable**  
Champagne Caviar-Nasi Goreng – Wiener Schnitzel

**The basis is often conservative**  
Don't ask the basis about death penalty or women's emancipation\*

**?**  
\* INNOVATION \* INNOVATION \* INNOVATION

**Recognition requires deep insight**  
\* Citizen involvement to increase acceptance



# Areas of interest:

- Automatic Categorization of Text
- Sentiment Analysis
- Automatic Abstract
- Automatic Keyword Extraction
- CRMBot / chatbot / ...
- Voice recognition / Speech to text
- Automatic Translation





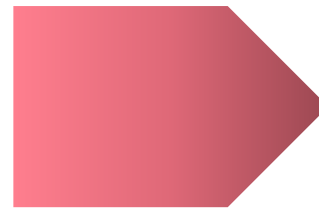
# TOP 4 – SUMMARY, WHAT'S NEXT



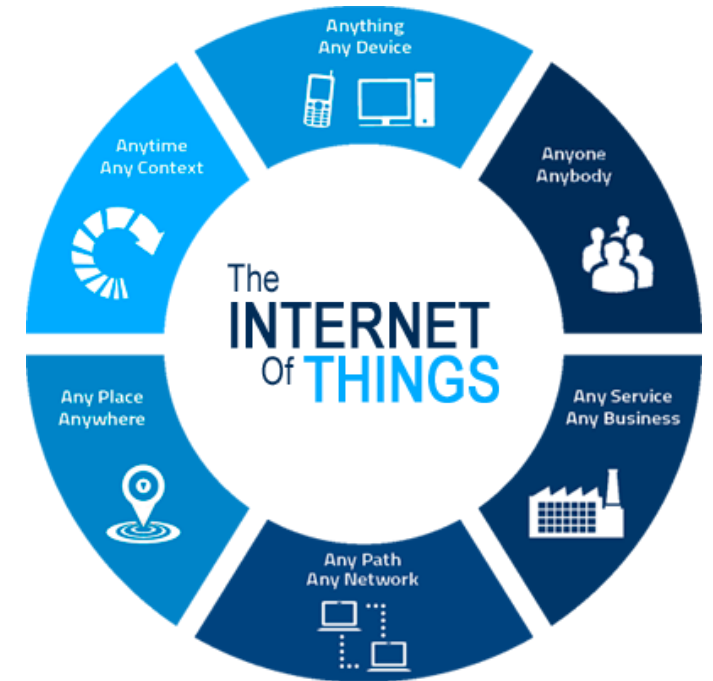
# Tempora mutantur, nos et mutamur in illis



Status Quo



mobile



# Recommendations ...

- holistic approach, comprehensive framework
- include horizontal key enablers in the big picture
- reduce complexity
- don't think in SILOS ...
- reinventing the Wheel ,syndrom' / legal 'support' needed?!
- C H A N G E ...



Thank you!

Questions?



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CIO Austrian Parliament / Parliamentary Administration - IT

<http://www.parlament.gv.at/>

