

# Trusted Cloud

## Trust in Cloud Computing as a key to digitization

April 2018

# The importance of cloud technology

For the process of digitization Cloud Computing is an **indispensable backbone technology**

- Cloud infrastructures allow for **flexible integration of data** from multiple sources, e.g. in the **Industry 4.0** context
- Cloud applications enable necessary **collaboration of enterprises** throughout various stages of the value chain
- Cloud is an appropriate basis for **extraction of knowledge** from **(big) data** and development of **smart products**
- Cloud technologies enable especially SME to professionally **tackle the challenges of cybersecurity**
- Cloud applications allow for enhanced **interaction** with the customer and the **generation of new business models**

 **The adaptation rate of cloud services in business is of high importance for the speed of digitization**

# But especially SME are faced with challenges in adaptating to cloud technologies

Potential obstacles are found in questions adressing...

Trusted Cloud takes on reservations and breaks down entrance barriers


... the **legal compliance** of the cloud service (e.g. wrt the EU GDPR)

...the **security** of the cloud service

...the **integratability** of cloud services into existing infrastructures

...the **portability** of data

...the **avoidance of dependencies** upon one provider



„With Trusted Cloud, we aim to promote trust and transparency and facilitate the adoption of Cloud Technologies for businesses.“

Matthias Machnig,  
State Secretary at the German Federal Ministry for Economic Affairs and Energy

# Trusted Cloud label -building up trust

## Trusted Cloud label– the purpose

- A quality seal (the **Trusted Cloud label**) is awarded to **trustworthy cloud services** which meet the necessary requirements with regard to transparency, security, quality and legal compliance.
- Special requirements e.g. for **Industry 4.0, FinTech** or **Health** can be incorporated
- The label provides **orientation** especially for **SME** as to which services meet the requirements for **trustworthy** cloud computing.
- All labeled services are **publicly listed** and **orientational knowledge** for users is provided.

## Trusted Cloud label – the acting entities

- The project is under patronage of the German **Federal Ministry for Economic Affairs and Energy (BMWi)**.
- A public-private initiative (The **Competence Network Trusted Cloud** association) including stakeholders from the user as well as the provider community has been established to administer the Trusted Cloud label.
- An independent **Trusted Cloud Advisory Board** guarantees neutrality of the label .

# Stakeholders of the Trusted Cloud Competence Network



Bitkom is Germany's digital association. Founded in 1999 as a merger of individual industry associations in Berlin and represents more than 2,500 companies in the digital economy



Bitmi : an association for medium sized IT companies representing 1,500 members



eco, with more than 1,000 member organizations, is the largest Internet industry association in Europe.



ENX Association representing the European automotive industry, companies and national associations Audi, BMW, Bosch, Continental, Daimler, DGA, Ford, Magna, PSA Peugeot Citroën, Renault, Volkswagen, ANFAC (Spain), GALIA (France), SMMT (UK) and VDA (Germany)

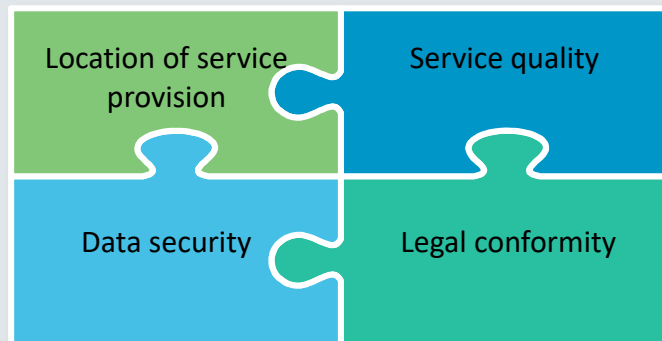


VOICE-EV represents more than 400 user companies and brings together CIOs from across the entire spectrum of the European economy

# The Trusted Cloud criteria catalogue for cloud services focuses on transparency

## Trusted Cloud criteria catalogue

- **Quality criteria** must be fulfilled
- **Transparency** regarding the cloud service in has to be provided
- **Independent** assessment, prospectively extended through **accredited audit process**
- Based on **standards** and existing **certifications**, e.g. ISO 27xxx



## Areas of the criteria catalogue

A.1 Provider

A.6 Security

A.2 Service

A.7 Data privacy

A.3 Subcontractors & data centers

A.8 Operative processes

A.4 Certificates

A.9 Interoperability & portability

A.5 Contract

A.10 Architecture

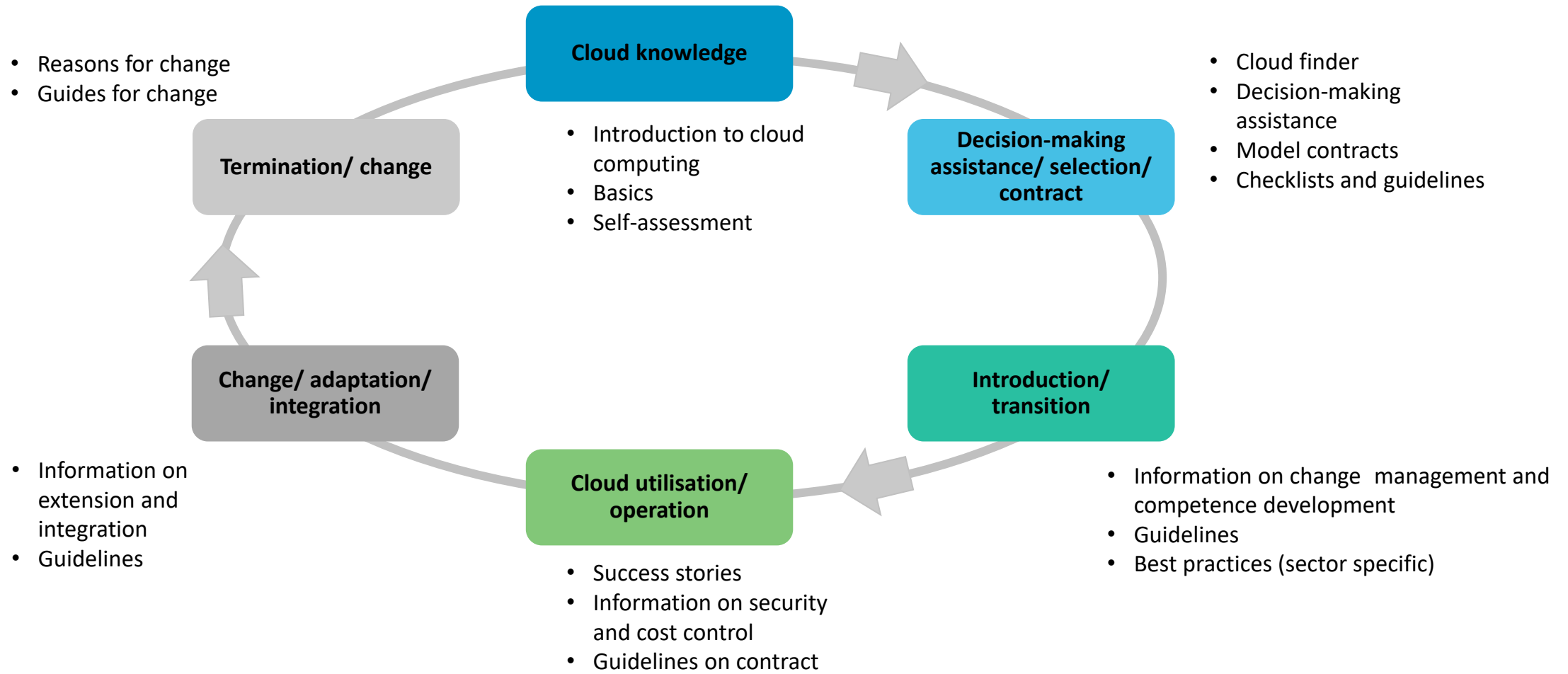
# Which use cases are driven by Trusted Cloud?

## Examples of actual solution portfolio

- **Aggregation** of data from **various regions/nations** (e.g. worldwide maintenance of complex plants):
  - Providing global security standard
  - incorporating local regulatory requirements
- Secure **collaboration platform for confidential information** throughout various stages of the value chain of an industry (e.g. standards cloud catalog for European automotive industry/ENX association)
  - Trusted international sourcing
  - Enabling SMEs to meet compliance requirements of „global players“

**In addition, Trusted Cloud is part of the EU stakeholder workgroup defining the basic requirements for the European Cloud Cybersecurity Certification (EU commission)**

# In addition: Expert knowledge for SME throughout the entire lifecycle of cloud services



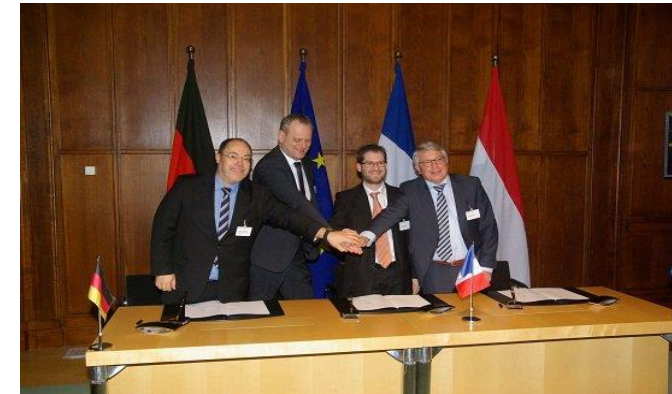


# Step 1 towards harmonization and standardization: Cooperation agreement with french and dutch initiatives

## European cloud label initiatives



## Cooperation agreement on the occasion of the Second German-French Digital Conference



### Aims of the cooperation

- European harmonization and standardization
- Synchronization of the criteria catalogues
- Cooperation in marketing and building knowledge
- Objective: mutual recognition

# Step 2 towards harmonization and standardization: Extension of the LoI

International conference in Berlin on  
September 26, 2017



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Attendants from...

- Austria
- Czech Republic
- France
- Italy
- Netherlands
- Romania
- Slovakia
- EU commission
- Germany

#### Aims of the cooperation

- Achieving a broad European harmonization and standardization
- Extension of the dutch-franco-german LoI
- Cooperation in communication

**Objective: Extension of the co-operation throughout the EU and beyond**

# Current activities

- Adapting the Catalogue of criteria to GDPR requirements
- Participation in AUDITOR:
- Project of the German Ministry for Economic Affairs and Energy (led by KIT)
- Developing a certification scheme (acc. to Art. 42f.) for Cloud Services
- Catalogue of Criteria to be published in June
- Shaping the European Cyber Security Certification Scheme for Cloud Services



# Thank you for your attention!

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