



#### **IoT Global Good Practice**

RIPE meeting, Ahoy Rotterdam, 24 May 2023

## Building Global Trust in the Internet of Things

THE IGF DYNAMIC COALITION ON IOT BRINGS TOGETHER STAKEHOLDERS FROM ALL OVER THE WORLD TO ENGAGE IN A DIALOGUE ON "GOOD PRACTICE" IN IOT, WITH THE INTENT TO FIND A REALISTIC AND ETHICAL WAY FORWARD

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### Benefits ... and challenges

- New technologies bring us ways to respond to todays' challenges that never existed before ... and come with new challenges
- Technologies are not good or bad in themselves – it is how we use them.

## Societal challenges

Healthcare; Independent living; Secure society; Sustainable society

Economic challenges Innovation; growth; profit Environmental challenges

Scarce resources; waste reduction; environmental monitoring



#### Governance

Global standards, open standards, multistakeholder involvement, ethical IoT

## Privacy and data collection

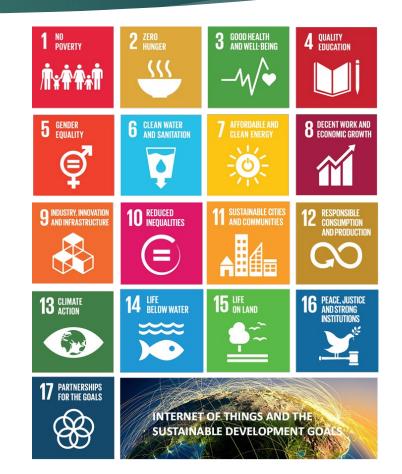
Big data issues, cloud issues (location, jurisdiction, accountability), digital literacy

#### Security

Access, Autonomous systems, cyber attacks on new end points

## Address specific societal issues

- Connected technologies are a necessity to addressing multiple societal challenges in a doable way.
- It requires sharing global knowledge about solutions, and local knowledge and action to make things happen.



## Many applications...

- ► Ranging from:
  - industrial IoT to Consumer IoT;
  - connected emergency warning systems to traffic management systems;
  - Health monitoring and enhancing systems to agriculture applications;
  - Wildlife tracking to security enhancing;
  - Autonomous systems to tools that enhance our human abilities;
  - and much more ....



Global approach towards IoT

IGF AND THE DYNAMIC COALITION ON IOT

## loT is part of Internet

- 1. IoT is merely a specific aspects of the Internet, just like social media, communication and access to information, and links to AI, Big Data
- 2. IoT has specific characteristics that will co-determine the development of future networks. This includes;
  - Collecting, storing and providing access to many data related on observations by sensors;

- Autonomous networks with actuators that take action following receipt of specific data according to pre-programmed decision models, learning, or external interventions;
- ▶ The possibility to "weaponize" IoT devices to attack third parties.

## Dynamic Coalition on IoT

Set up in Hydrabad (IGF, 2008) and active ever since during IGF and regional meetings

- Aim is to develop a shared understanding
  - ► on Global Good Practice
    - with regards to the Internet of Things
- most IoT dialogues take place in silos with single stakeholders in DC IoT multi- stakeholders meet on equal terms at global level

## Internet of Things Good Practice Principle

Internet of Things Good Practice aims at developing IoT systems, products, and services taking ethical considerations into account from the outset, both in the development, deployment and use phases of the life cycle, thus to find an ethical, sustainable way ahead using IoT to help to create a free, secure and enabling rights-based environment: a future we want.

(IGF Dynamic Coalition on IoT: "IoT Good Practice policies")

## IGF DC loT thinking in summary

#### Embrace IoT to address societal challenges in an ethical way

We need IoT to keep this world manageable

#### Create an IoT environment that encourages investments

- Involve all stakeholders
- Create ecosystem
- Stimulate awareness and feedback
- Provide legal clarity and review the legal mechanisms

#### Ensure emergence of a trusted IoT environment

- Meaningful transparency
- Clear accountability
- ► Real choice

## Key challenges today

- 1. <u>Ethical application of IoT</u>: what core values to embed in IoT devices, services and ecosytems, with regards to Data and algorithms
- 2. <u>**Trusted IoT**</u>: security and stability: how to ensure that IoT can be trusted not to be harmful to its users, nor the wider Internet;

- 3. <u>Sustainability</u>: whereas IoT contributes to monitoring and action towards a more sustainable environment, it needs to do so in a sustainable way;
- 4. <u>Deployment</u>: to be available and serving wherever it can contribute to an inclusive society, for the good of society;

#### WHAT'S NEXT?

# loT towards the future

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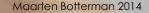
## Leveraging the work of DC lot

#### If we feel there is value in progressing an understanding of healthy development and deployment of IoT:

- At global level
- Across application silos
- With equal grounds for all stakeholder groups

#### How can we progress this towards IGF 2023 and beyond?

# We create the world of tomorrow with the choices and actions of today ...



## More information

Read on the IGF DC IoT pages: <u>https://www.intgovforum.org/en/content/dynamic-coalition-on-the-internet-of-things-dc-iot</u>

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Read more about the previous work of DC IoT: <u>https://medienstadt-leipzig.org/dciot/</u>

Sign up for the DC IoT mailing list: <u>http://mail.intgovforum.org/mailman/listinfo/dc\_IoT\_intgovforum.org</u>



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## About <sup>15</sup> Maarten Botterman

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