IGF 2018, Paris

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

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

Source: GNKS 2014

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.

INTERNET OF THINGS AND THE SUSTAINABLE DEVELOPMENT GOALS

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 enhacing;

  ▶ Autonomous systems to tools that enhance our human abilities;

  ▶ and much more ….
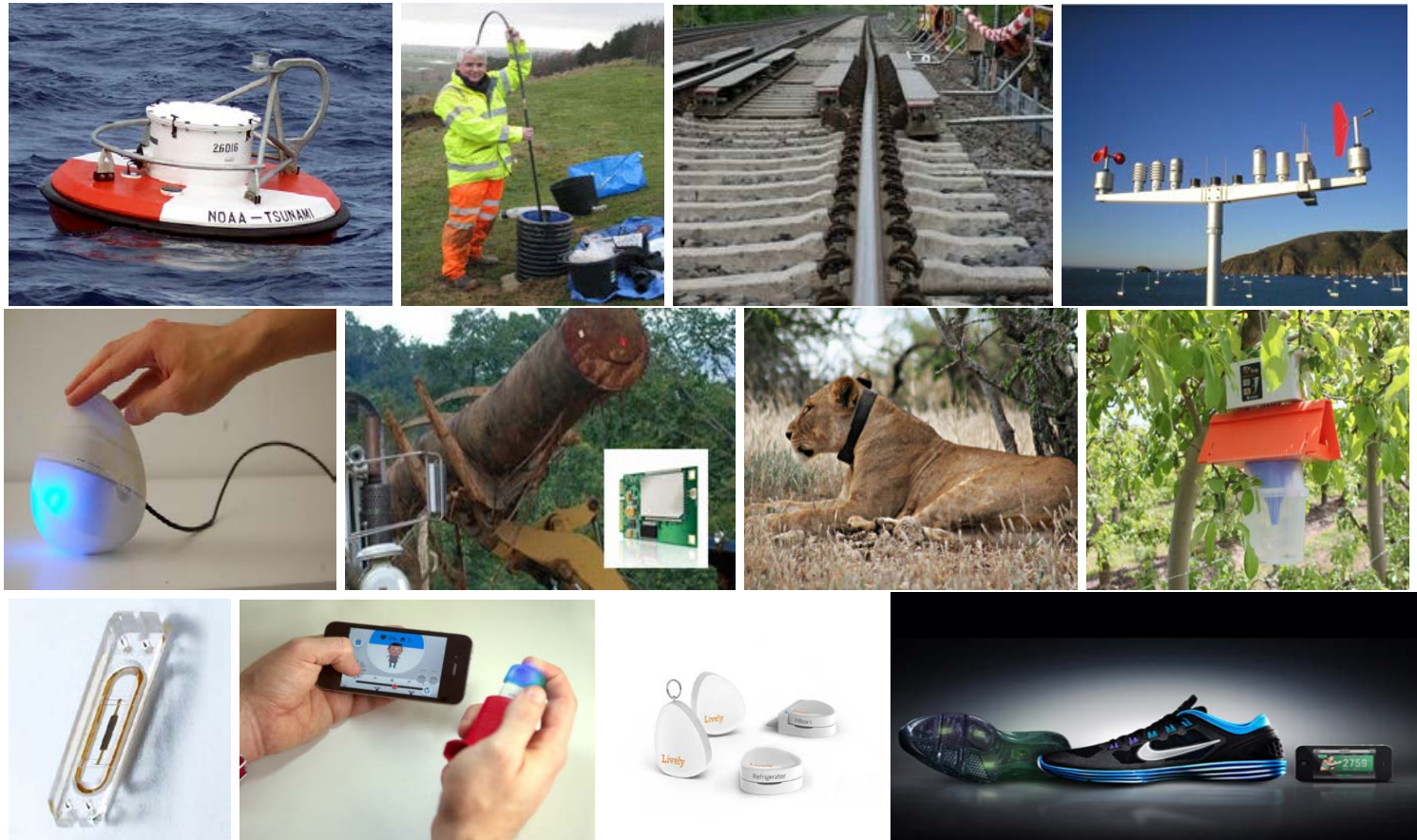
Global approach towards IoT

IGF AND THE DYNAMIC COALITION ON IOT

IoT is part of Internet

1. IoT is merely a specific aspects of the Internet, just like social media, communication and access to information

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 IoT 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

Focus of today's session

1. Strenghtening security paragraph: what is necessary from a users' perspective; what is doable from a business and technology perspective; and what role for governments in helping to ensure a healthy balance.

2. Calling for support - to move towards a Principle people can subscribe to, to agree on a way of reaching out that invites explicit support for the statement supported by the DC IoT Good Practice Paper.

Other issues to address

▶ Set up working groups to:

   ▶ Take stock on contemporary work on ethical approaches for development and deployment of IoT and related technologies and services;

   ▶ Take stock of contemporary work on securing IoT and propose a longer term way forward in ensuring justified trust in IoT and related technologies and services

We create the world of tomorrow with the choices and actions of today …

Maarten Botterman 2014

More information

▶ Read and comment on draft Declaration: https://www.intgovforum.org/multilingual/index.php?q=filedepot_download/6186/1407

▶ Read more about the previous work of DC IoT: http://www.iot-dynamic-coalition.org/

▶ Sign up for the DC IoT mailing list: http://intgovforum.org/mailman/listinfo/dc_iot_intgovforum.org

IoT Global Good Practice

www.iot-dynamic-coalition.org