מרכז פדרמן לחקר הסייבר
THE FEDERMANN CYBER SECURITY CENTER

THE IMPOSSIBLE TASK OF REGULATING IOT

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DEFINITION

The Internet of things (IoT) is the network of devices such as vehicles, and home appliances that contain electronics, software, actuators, and connectivity which allows these things to connect, interact and exchange data..

WHY CONNECT?

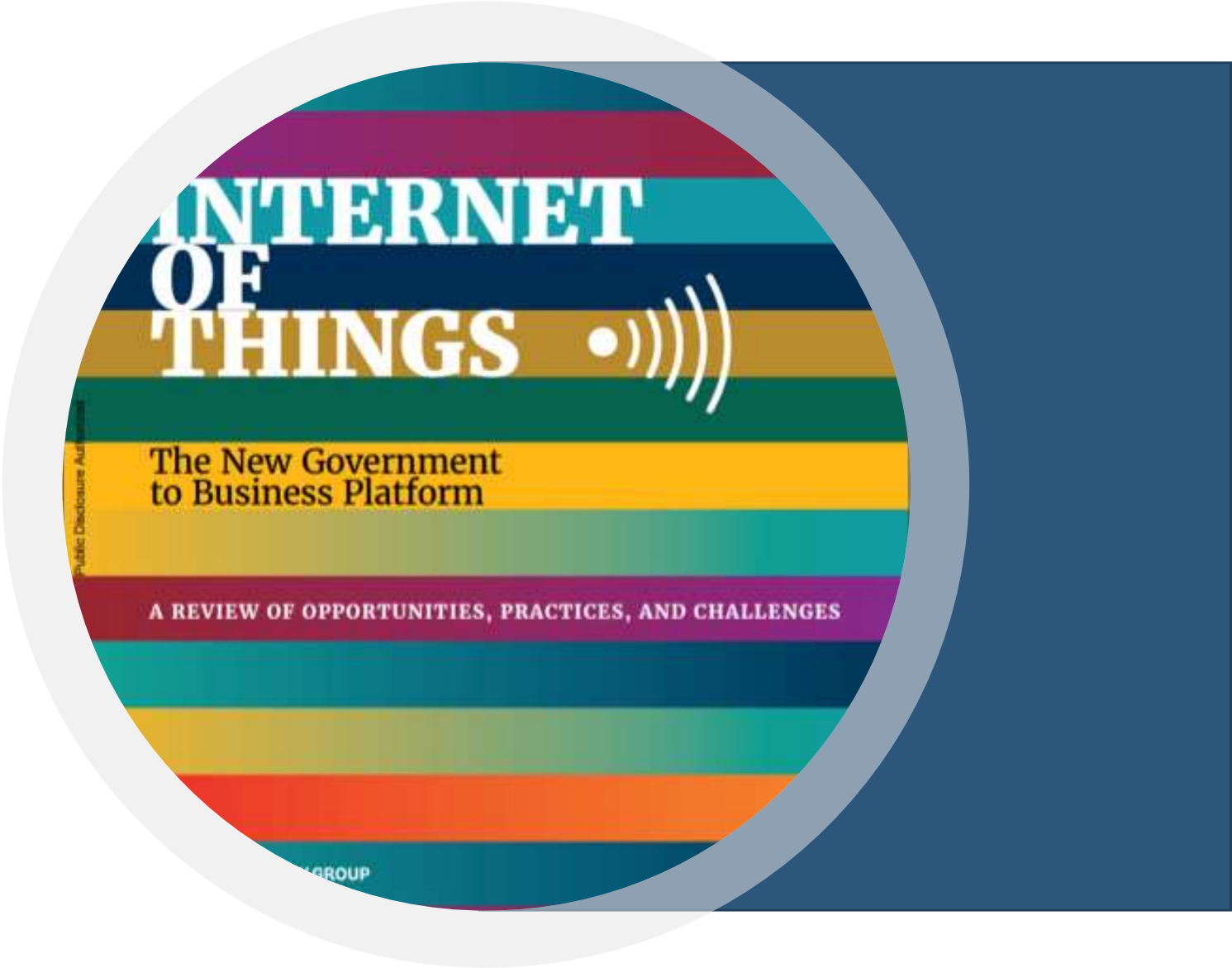
Convenience

Safety

Efficiency

CHALLENGES

Policy makers must, however, contend with growing pressure to become more innovative, open, collaborative, evidence based, and participatory (3) as the expectations of business and society change, technology becomes more pervasive, the old policy regime starts to show cracks, and efficiency and preparedness to deal with the technical and nontechnical implications of the introduction of new digital technologies? What are the risks for everybody involved? How might such initiatives align with other related programs?



REGULATING PRIVACY

PRIVACY

What is gathered?

Where will the information go?

Where will it be used?

WHO IS ON THE OTHER SIDE?

We are not sure who is gathering the information.

Is it a person or a machine? Does it matter?

WHY IS PRIVACY IMPORTANT

AUTONOMY

Necessary for defining relationships

Necessary for formulating opinions.

Enables personal development.

DEMOCRACY

Necessary for communities.

Required for democratic discourse.

Allows fringe.

CHALLENGES TO REGULATION

MYRIAD OF DIFFERENT DEVICES

It is difficult to formulate rules to answer the myriad types of connected devices.

Cameras, Sensors, GPS…

EFFICIENCY CONSIDERATIONS

Smart-City projects are considered necessary for a growing metropolis

Information gathered may be detrimental to privacy.

CONSENT?

GDPR rules are based on the idea of consent to forgo privacy.

People may be manipulated by circumstances to agree. Terms of use are difficult to understand. Long term relationship are difficult to rescind.

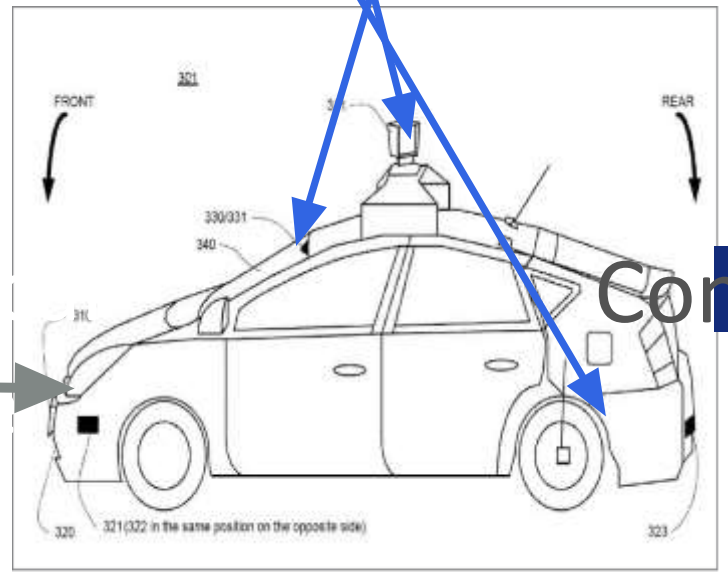
ADAPTATION

How do we treat mechanized gathering without human intervention.

SELF DRIVING VEHICLES

Sensors

echani
Vehicle



Connectivity

Driving Algorithms

Identifiable Issues:

Location of Cameras.
Types of cameras and amount of usage.
Data retention.
Security and Cybersecurity.

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THANK YOU

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