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Case studies on best practices in AI governance

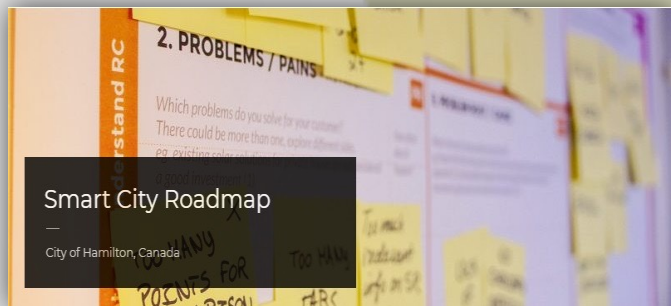
Danish AI strategy, Governance and Signature AI projects

CURRENT AND FUTURE CHALLENGES OF
COORDINATED POLICIES ON AI REGULATION
European Council, Hungary, 2021



Background

- 13 years experience with Smart City Concept
- 50+ cities worldwide, 10 Governments/ministry level, private sector
- National smart city strategies (DK, Germany, UK, Australia...)
- Smart City Expert Group for former Danish Government
- Hitachi: Director for Data Exchange and Member of Global Smart City Board (incl. C40)
- Smart City Insights past 4 years





Introduction

GDPR and AI systems – Striking the right balance?

GDPR

City Data Exchange – Data Marketplace
Enables Data Suppliers to Find Data Consumers

HITACHI
Inspire the Next

Data Suppliers

- City Open Data
- Transportation / Parking
- Telecom Data
- Sensor Data
- Financial Transactions
- Energy Data
- Water Usage Data
- Event Data
- Weather / Environmental
- Social Media
- Citizens

Data Suppliers can monetize existing data and find new channels for information and services.

CITY DATA EXCHANGE

B2B Marketplace
Public and Private Data
Cloud-Based CDE-as-a-Service
Data Privacy – No Personal Data

Data Consumers

- City Departments
- Public Authorities
- Retailers
- Property Development
- Property Management
- Transportation and Parking Providers
- Insurance Companies
- Application Developers
- Consulting Firms

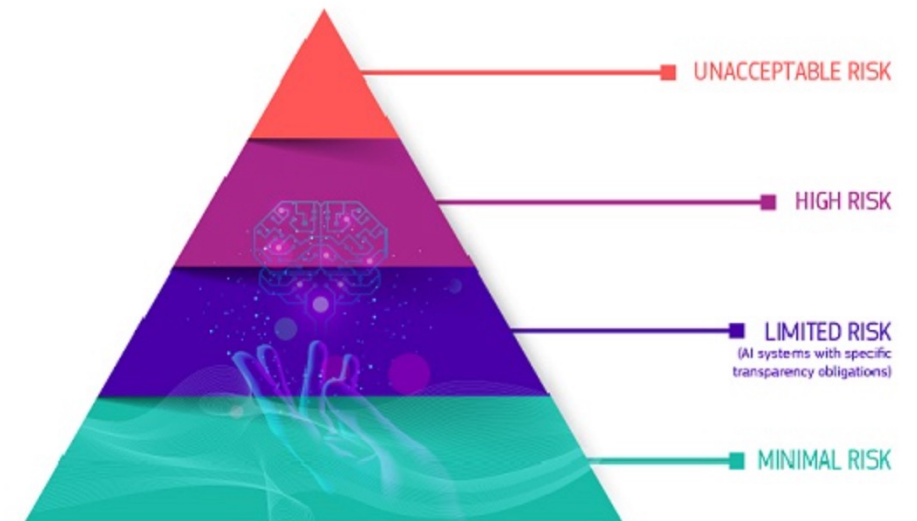
Data Consumers gain access to multiple data sources, enabling new and improves applications and services as well as new inputs for planning and forecasting.

IoT, Human and Business-Generated Data

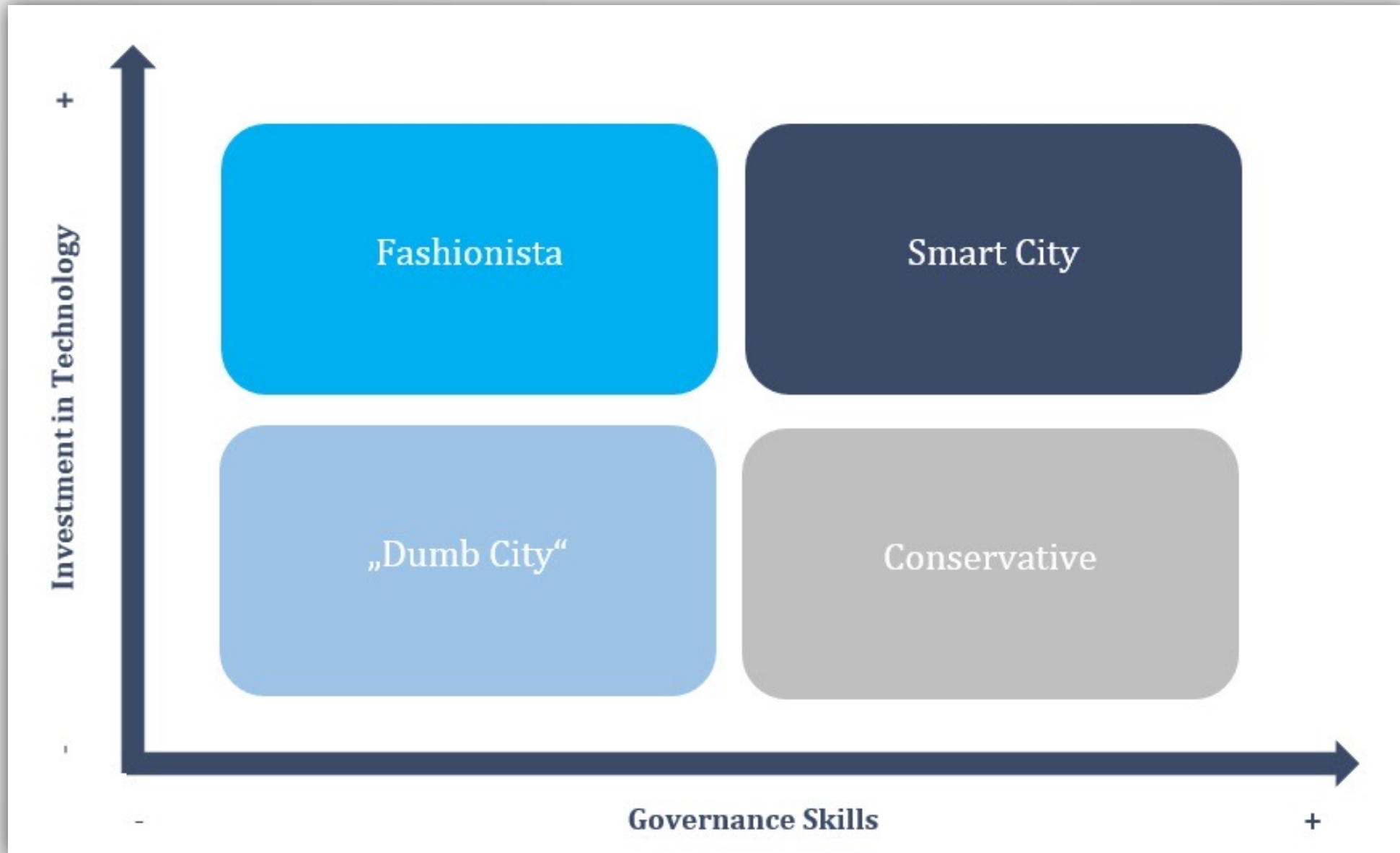


The Artificial Intelligence Act

A risk-based approach



Typology of “Smart Cities”





National AI strategy 2019

The government's vision

Denmark is to be a front-runner in responsible development and use of artificial intelligence.



Good starting point – but also challenges to be addressed

KEY OPPORTUNITIES

- + A high level of readiness on digital adoption when it comes to first wave digital technologies
- + A world-class pool of public data
- + A well-educated workforce
- + A strong AI research community within sub-disciplines of AI
- + Agile and non-hierarchical organizations

KEY CHALLENGES

- ÷ Low levels of private sector investments in AI compared with global leaders; also when adjusting for GDP
- ÷ No leading city-level AI eco-systems in Denmark
- ÷ Low levels of AI adoption among SMEs
- ÷ A large, and growing, shortage of people with deep analytical skills relevant to AI deployment


Four high level objectives

Common ethical and
human-centered
basis for AI

Researchers should
research and develop
AI

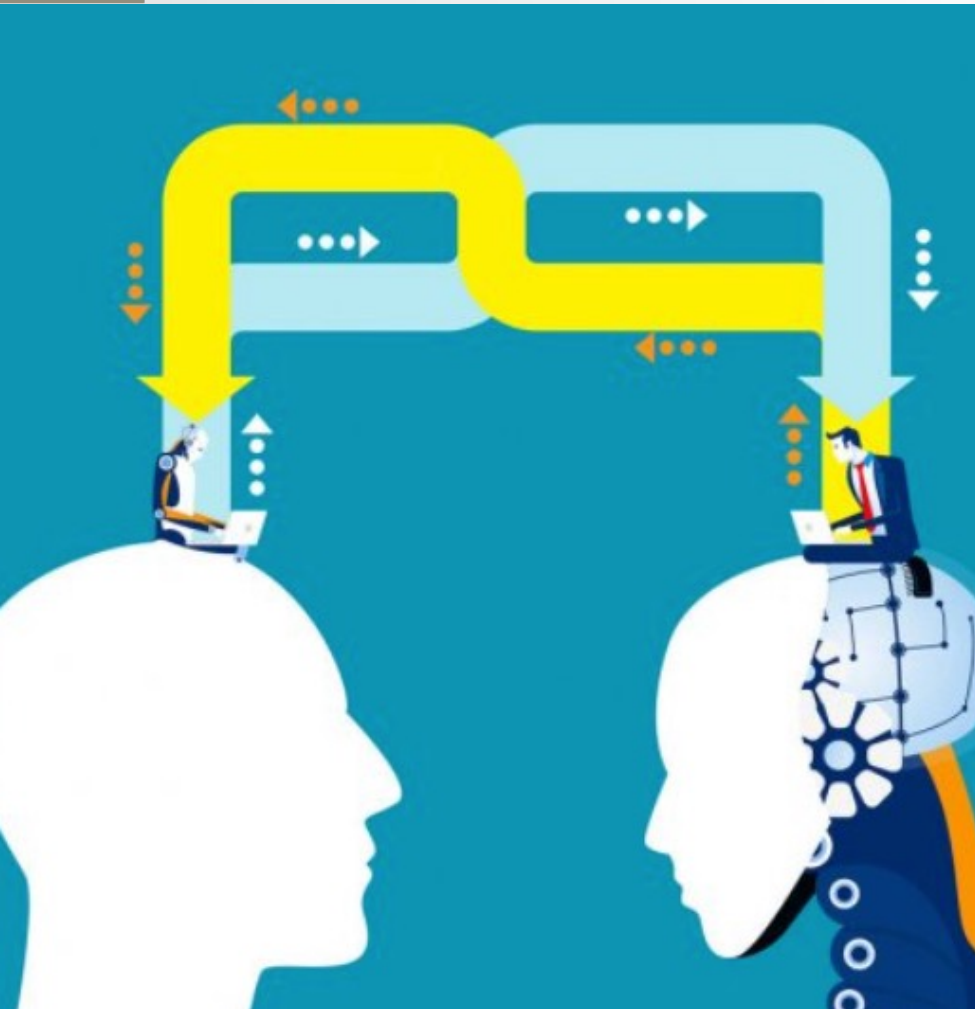
Danish businesses
should achieve
growth through
developing and using
artificial intelligence

The public sector
should use artificial
intelligence to offer
world-class service



Focus & Priority

Human Capital



The Technology Pact

A screenshot of the Teknologipagten website. The header features the logo and navigation links: 'Om Teknologipagten', 'Nyheder', 'Projekter', 'Viden', 'Ansøgningsrunder', a search icon, and a menu icon. The main content area has a large image of a man wearing a VR headset. Below the image, the text reads 'Mød Teknologipagten' followed by 'I denne videoserie kan du møde Teknologipagten projekter og partnere.' and a button 'Se med her'. At the bottom, there are three green boxes: 'Projekter' (Meet many projects in the Technology Pact and become smarter about what you are working on), 'Nyheder' (Find the latest news from the Technology Pact here), and 'Om os' (Become smarter about who the Technology Pact is, who is behind us, and how we work in our daily lives).



Infrastructure



- Common Danish language resource
- More open data supporting priority sectors
- Digital infrastructure

AI to address societal challenges

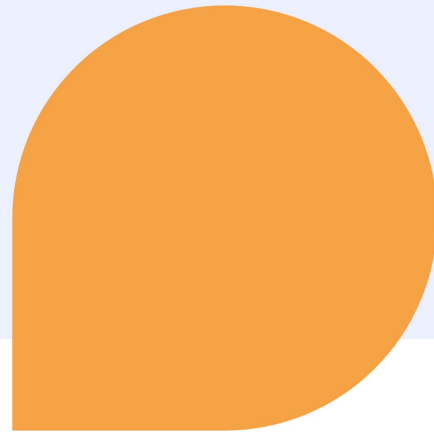


Regulation – Data Ethics

[Forside](#) / English

Data Ethics Council

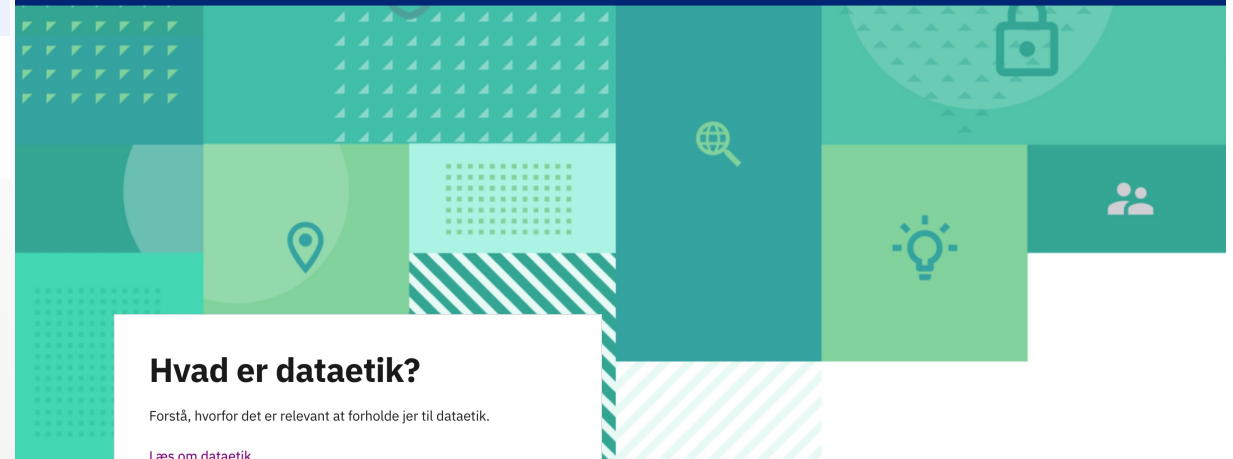
We contribute to the debate on digital solutions, data and artificial intelligence.



 virksomhedsguiden

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Dataetik



Hvad er dataetik?

Forstå, hvorfor det er relevant at forholde jer til dataetik.

[Læs om dataetik](#)

From the Lab to the Market



Signature Projects

Artificial intelligence for quality development in primary healthcare:

In primary healthcare, the technology can be used to support the work of general practitioners. With help from the technology, physicians will be able to notify the normal test results and identify abnormal test results more quickly. Artificial intelligence can also serve as decision support and, for example by assisting physicians in common tasks and diagnosing rare diseases.

Artificial intelligence for targeted employment efforts

Using artificial intelligence will potentially shorten unemployment periods. Analysing patterns in historical data on successful efforts will make it easier for case officers to target employment efforts to the individual citizen.

Artificial intelligence for better and quicker case processing in building projects

Artificial intelligence is likely to be used to reduce processing times when citizens or businesses need to get a building project processed. For example, in connection with screening applications, comparison with similar projects, categorisation of projects and decision support in case processing.

Thank you!



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