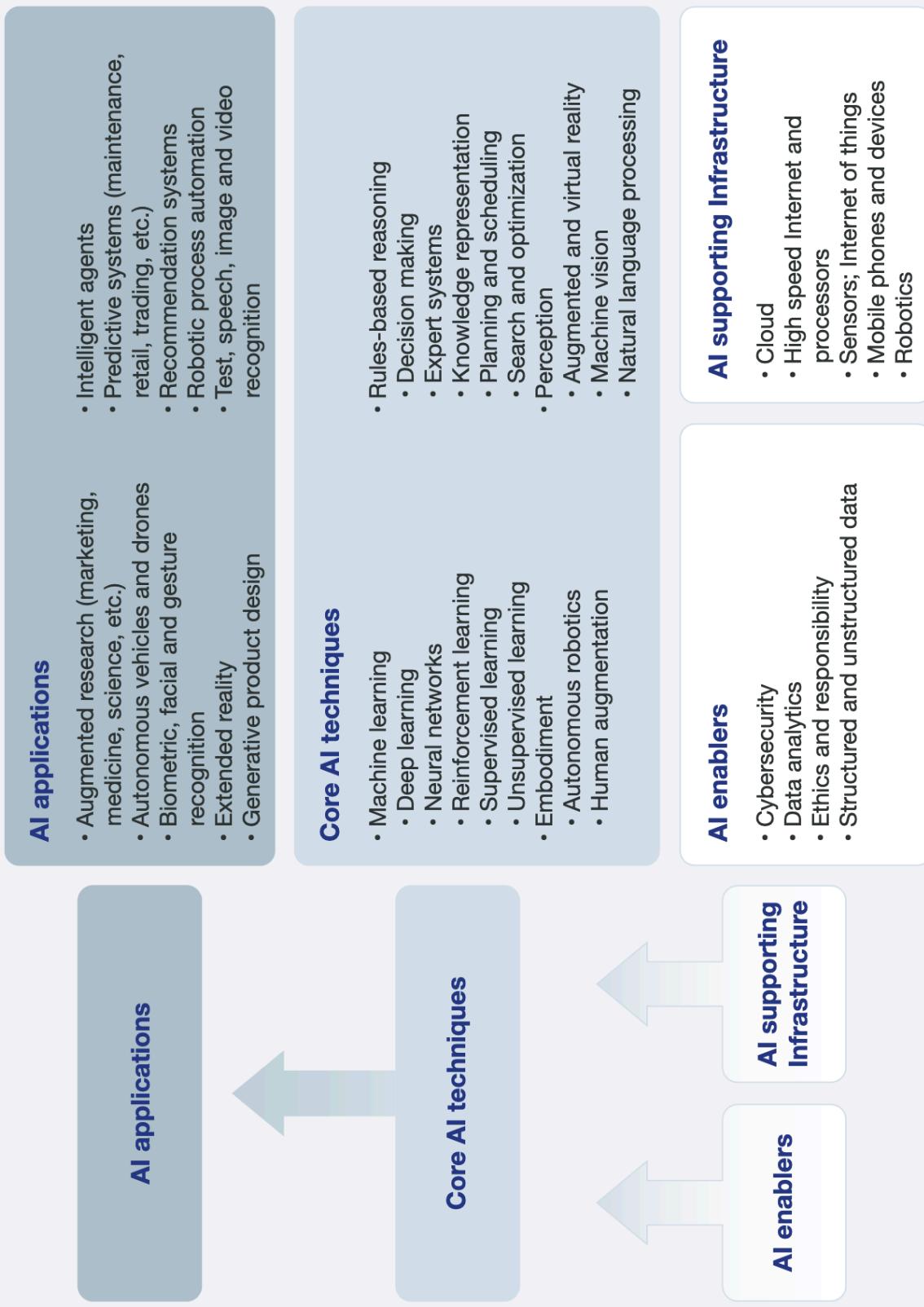


**Figure 1.2. AI functional applications**





*Frazho*



# Trustworthy AI

## Lawful AI

(not dealt with in this document)

## Ethical AI

## Robust AI

### INTRODUCTION

### Foundations of Trustworthy AI

Adhere to ethical principles based on fundamental rights

### 4 Ethical Principles

Acknowledge and address tensions between them

- Respect for human autonomy
- Prevention of harm
- Fairness
- Explicability

### CHAPTER I

### Realisation of Trustworthy AI

Implement the key requirements

Evaluate and address these continuously throughout the AI system's life cycle

### CHAPTER II

- Human agency and oversight
- Technical robustness and safety
- Privacy and data governance
- Transparency
- Diversity, non-discrimination and fairness
- Societal and environmental wellbeing
- Accountability

- Technical Methods
- Non-Technical Methods

via

### Assessment of Trustworthy AI

Operationalise the key requirements

### Trustworthy AI Assessment List

Tailor this to the specific AI application

## European AI Framework

European Fundamental Rights, Principles and Values

Value-Driven AI for Business, Society and People

Policy, Regulation, Certification and Standards

### AI Innovation Ecosystem Enablers

Skills and Knowledge

Data for AI

Experimentation and Deployment

### Cross-Sectorial AI Technology Enablers

Sensing  
Measurement  
and Perception

Continuous  
and Integrated  
Knowledge

Trustworthy  
Hybrid  
Decision  
Making

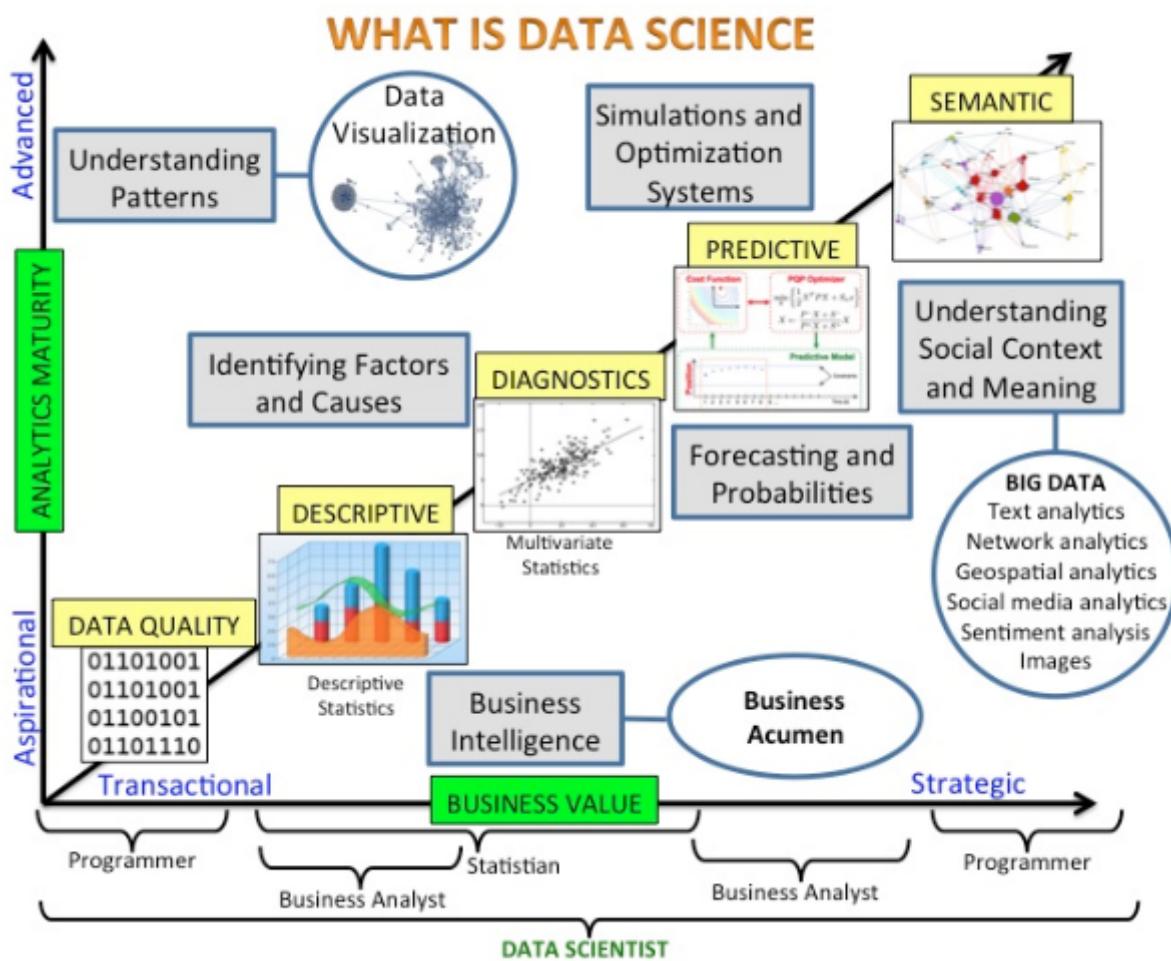
Physical and  
Human Action  
and Interaction

Systems,  
Methodologies  
and Hardware

## Systèmes avec modèle de données différent

Requêtes complexes, modèle de données non relationnel

Type	Organisation	Requêtes	Exemples de systèmes
XML	Données arborescentes, hiérarchiques	XQuery	 
Objet	Données complexes, avec propriétés et méthodes	OQL, VQL	 
Graphe	Graphe avec nœuds, arêtes, propriétés	Cypher, Gremlin	 
Triplets	Triplets RDF du Web sémantique	SPARQL	 



**Figure 4. Areas of the AI system in which biases can appear**

