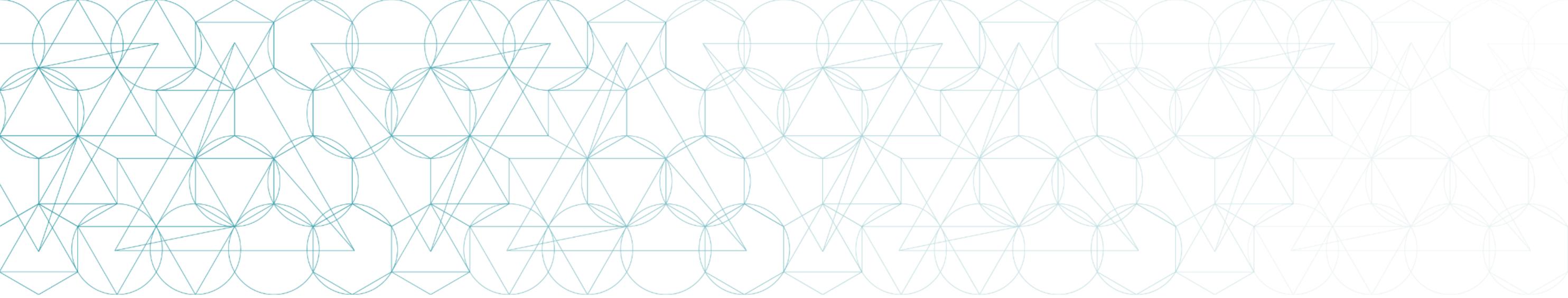


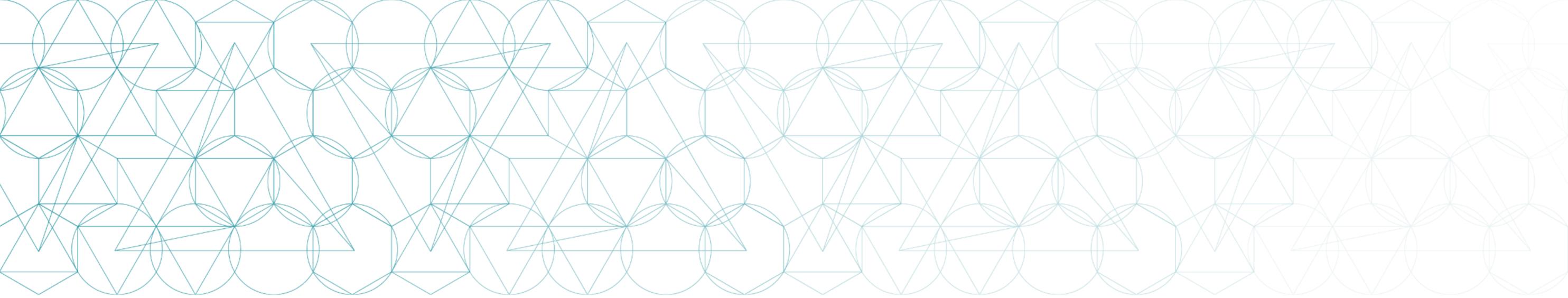
- **fact:** planning processes rely on vast quantity of data and analyses
- **status quo:** planning strategies are mainly based on [dated](#) data & information (generated from field researches, censuses and alike)
- **opportunity:** [big data](#) generated by cutting-edge technology available in cities, brings the possibility to base planning on near [real-time](#) data & information, thus better understand and anticipate behavioural patterns
- **instruments:** technologies like Artificial Intelligence, Quantum computing, 5G network, Supercomputers and others, collecting, transmitting and analysing information and data at ultra-high speed, progress at unprecedented levels



The next future brings a societal paradigm shift and new phenomena known as

- industry 4.0
- knowledge-based economy
- hyper-connected societies
- horizontally connected governmental and city/town departments
- digitized data collection and processing
- one Open Access Data pool

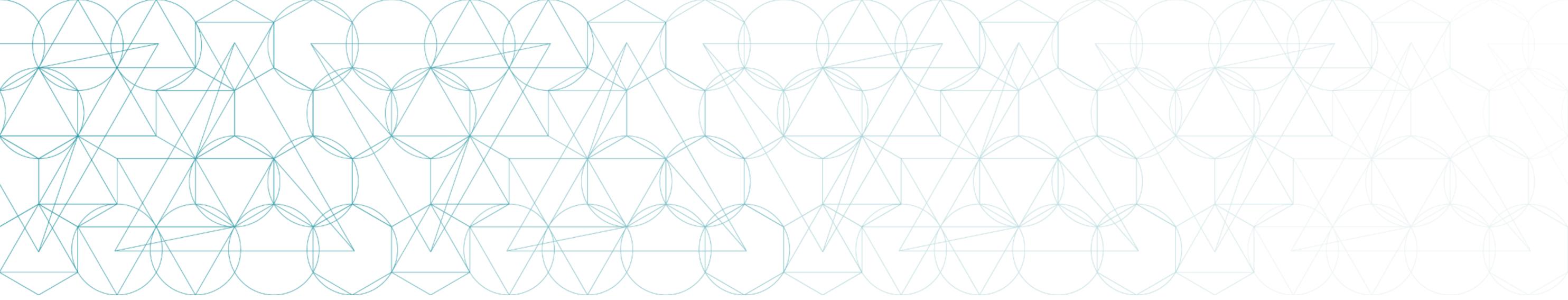
These trends are and will keep changing the way we plan, organize and manage cities and the way urban planning processes are being conducted and executed in the very near future



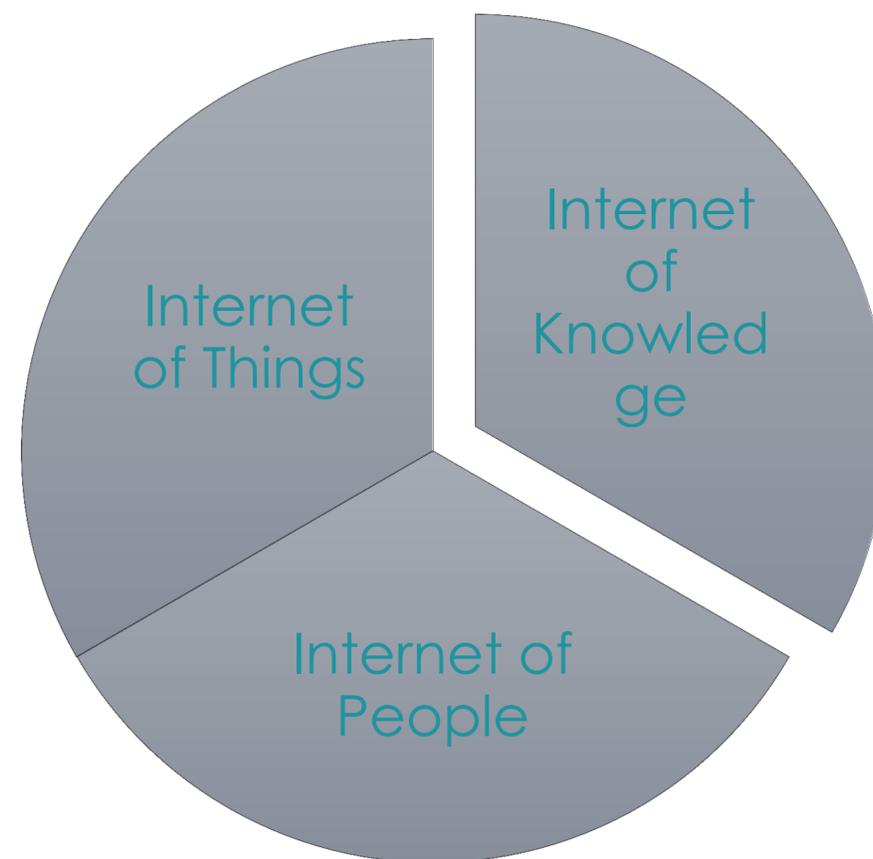
Big data is nothing different than data collected, transmitted and stored by digital means from various sources and at high speed and frequency

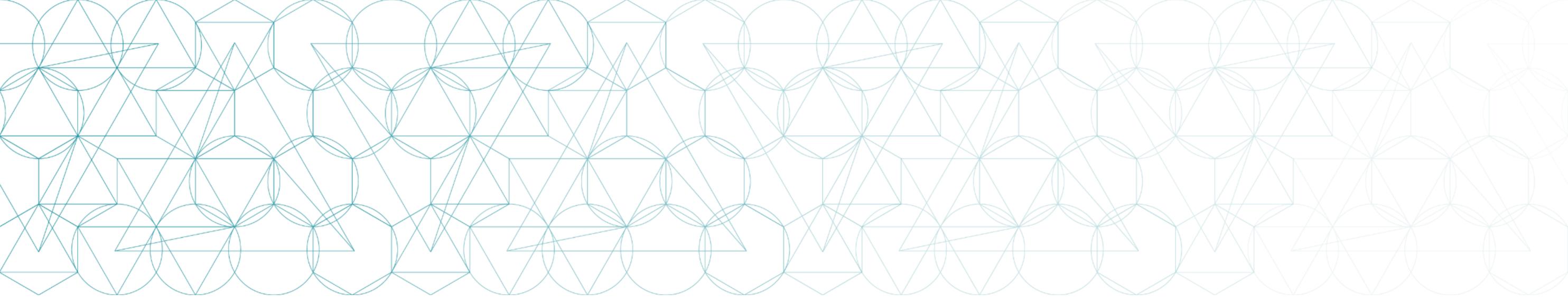
Humans can not compete with machines against frequency and high-volume tasks, but machines can not tackle novel situations

We will need human knowledge to connect new ideas from cross-cutting (bridging) disciplines to bring intelligence in Smart Cities



Technology-aided tools will provide planning with integral platforms where worldwide collective knowledge combined with big-data analytics can uncover hidden patterns, unknown correlations and trends, thus, accelerating the urban planning process to information based decision-making





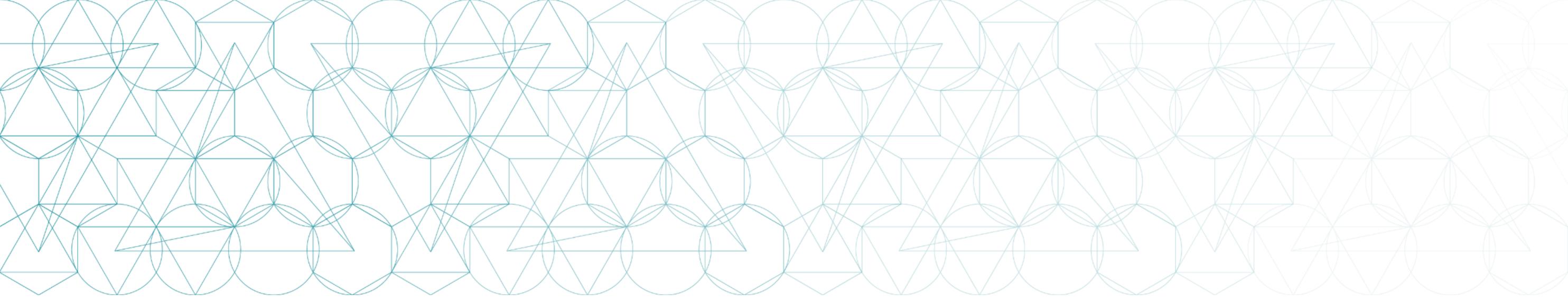
Internet of Knowledge = scaling the greatest minds to every mind

- Data as unorganized facts is worthless
- Information is potentially valuable concepts based on data
- Knowledge is what we understand based upon information
- Intelligence is the effective use of knowledge in decision making

Internet of Knowledge: a network of knowledge clusters connected to become a body of knowledge, while providing a content-based support for implementing the knowledge as a service.

Integrating big data and knowledge means

- Accelerated smart decision-making based on information processed from vast available on-line knowledge pool
- fast response on novel situations based on high volume, deep learning processed comprehensive data & information
- integrating the power of big data and scientific knowledge in one place to reach just-in-time decisions
- new expert knowledge that fills-in the gap between prediction patterns (urban context) and societal needs
- better efficiency in connecting crossover disciplines & developing effective strategies



The cities we need should shift from just-in-case to just-in-time planning

The city of 7 billion

