The digital integration hub Utilihive

Digital integration hub **built for utilities** delivering **electricity, gas, distributed heating and water**

Connects enterprise data and **machine data**

Replaces the need for an integration project delivered by a system integrator

What is the Future Role for Your Utility?

The future role for utilities in the energy revolution is not determined yet.

CATEGORY 1

Traditional Utility

A few utilities will probably **keep on going with an aging IT infrastructure** and dedicated focus on **traditional grid operation**.
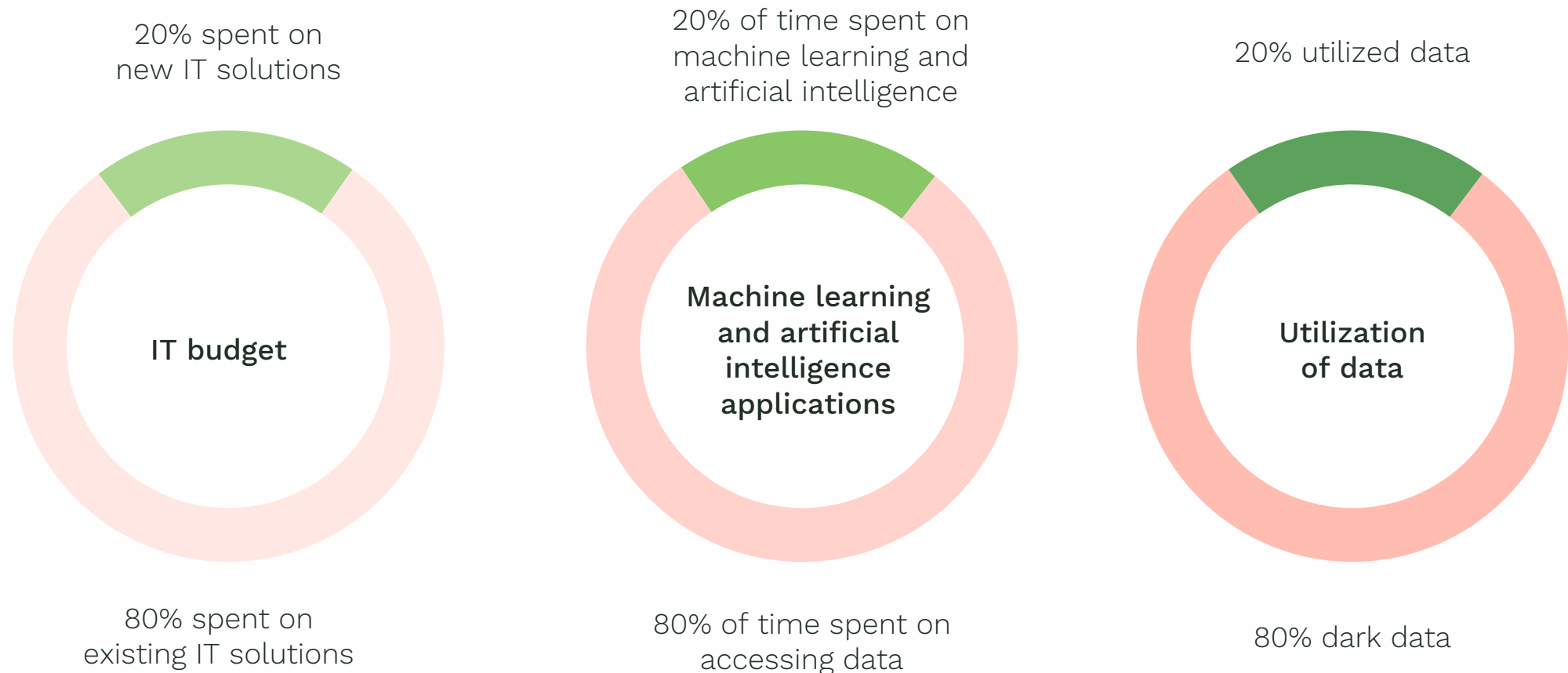
CATEGORY 2

Platformed Utility

Other utilities will **grab the opportunity to become a platformed utility** driving innovation by **integrating energy data across the entire value chain**.
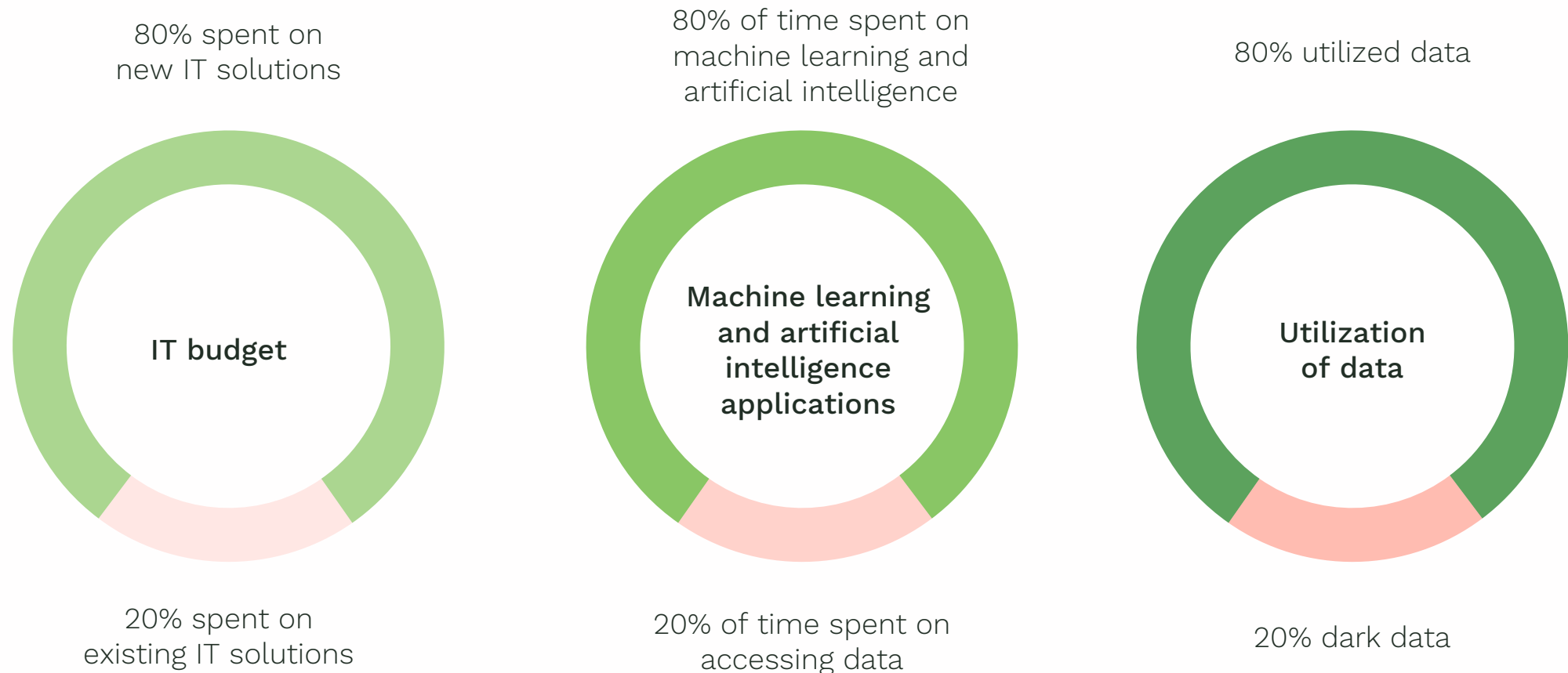
The Challenge of Accessing Data

Most utilities spend 80% of their IT budget for data driven business models on accessing data

20% spent on
new IT solutions

20% of time spent on
machine learning and
artificial intelligence

20% utilized data

IT budget

**Machine learning
and artificial
intelligence
applications**

**Utilization
of data**

80% spent on
existing IT solutions

80% of time spent on
accessing data

80% dark data

Digital Platform Utilities

Digital platform utilities succeeding with data driven business models make data easily available to their ecosystem of technology providers
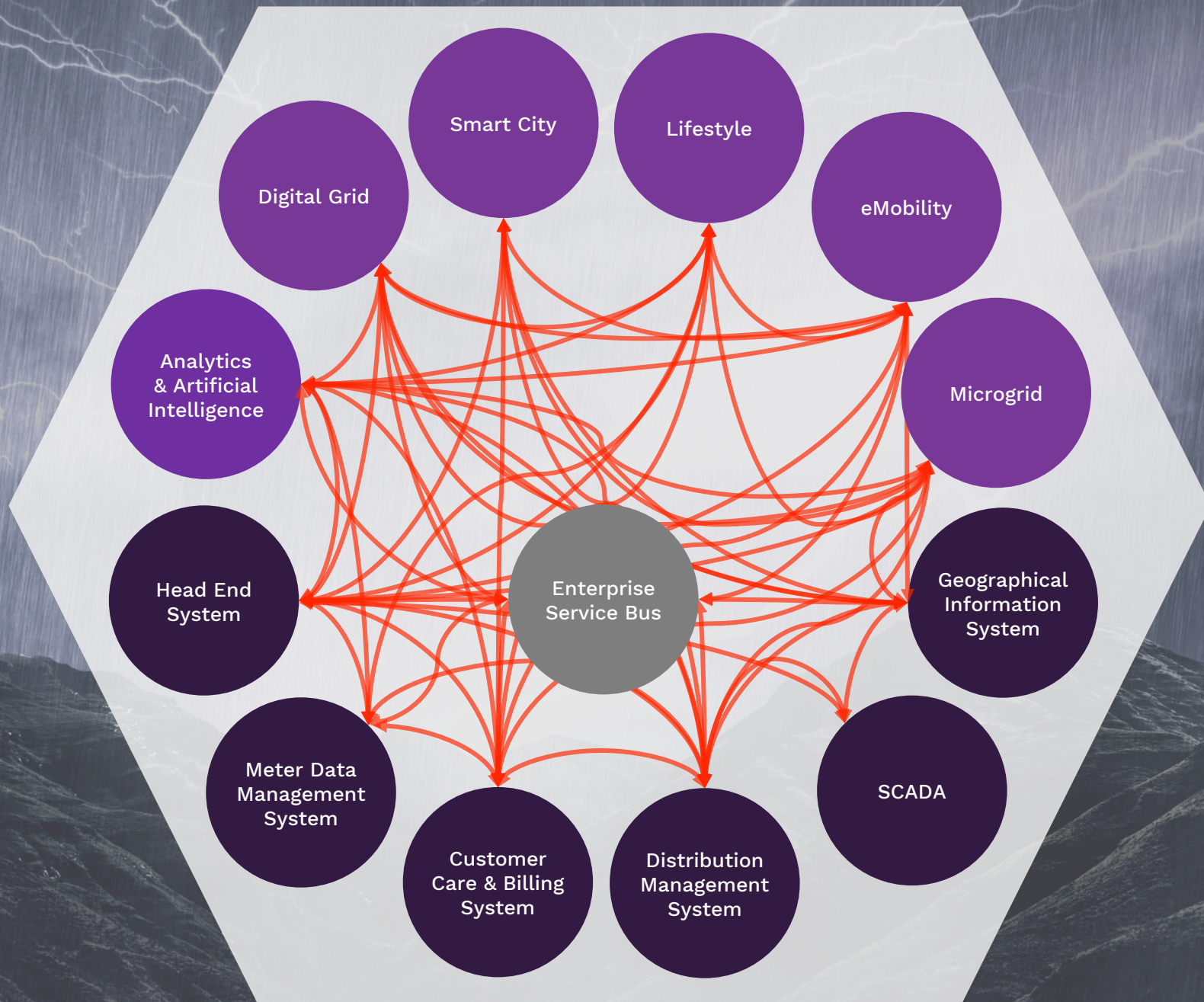
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Why is Digital Transformation Failing?

Enterprise Service Bus (ESB) with **expensive development**, **high operating costs** and **low flexibility for unlocking data**.

High degree of **point-to-point integrations** because of high costs associated with ESB.

Limited opportunities for the **new breed of technology companies** to **access data in systems of record**.
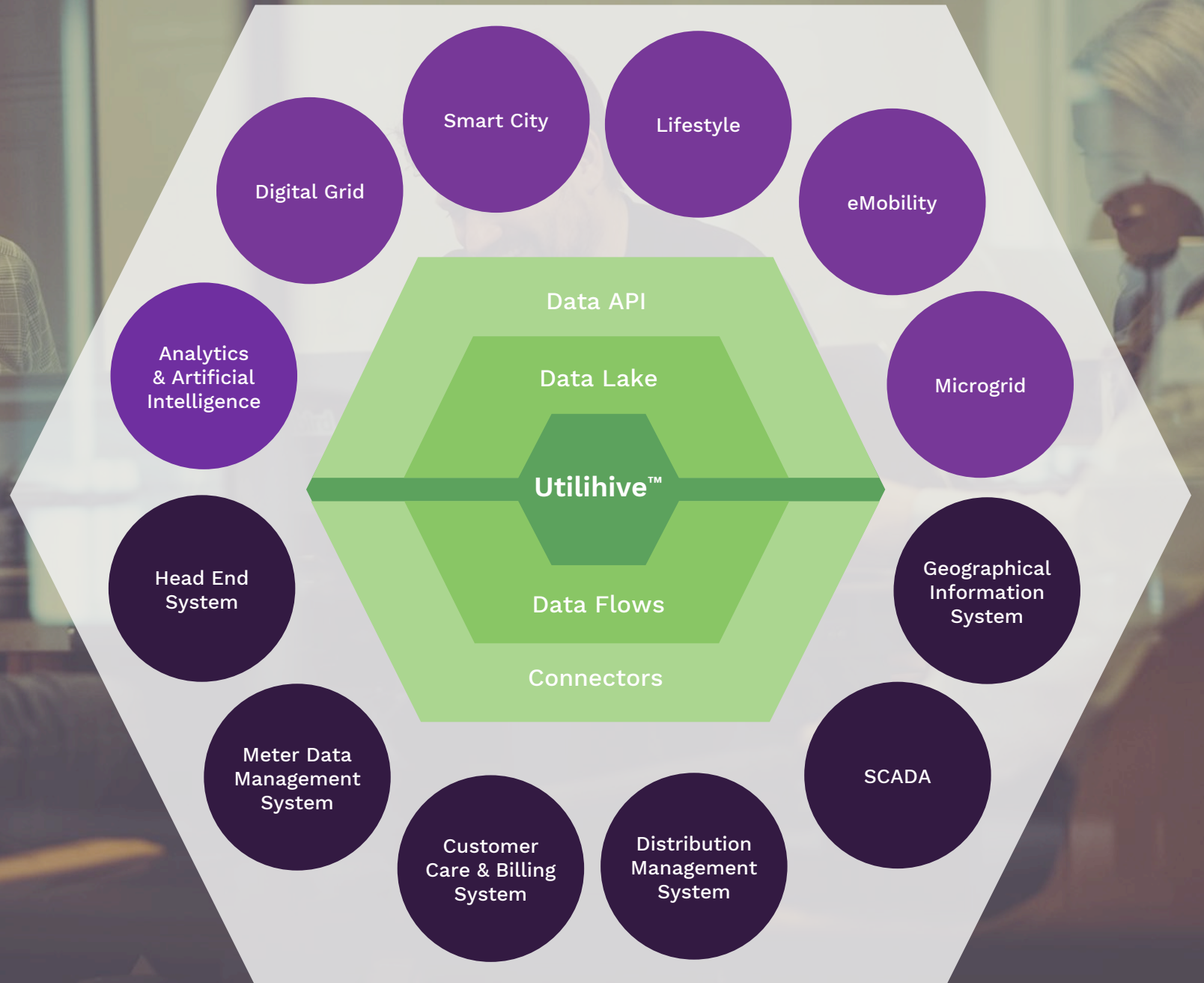
Utilihive

A **digital integration hub** is the most vital component for **data driven business models**, according to Gartner

Hybrid capabilities utilizing on premise software and cloud computing

Integrate **machine data** and **enterprise data**

Delivered as a service with **fixed subscription fee**

Smart City

Lifestyle

Digital Grid

eMobility

Analytics & Artificial Intelligence

Data API

Data Lake

Utilihive™

Microgrid

Data Flows

Head End System

Connectors

Geographical Information System

Meter Data Management System

SCADA

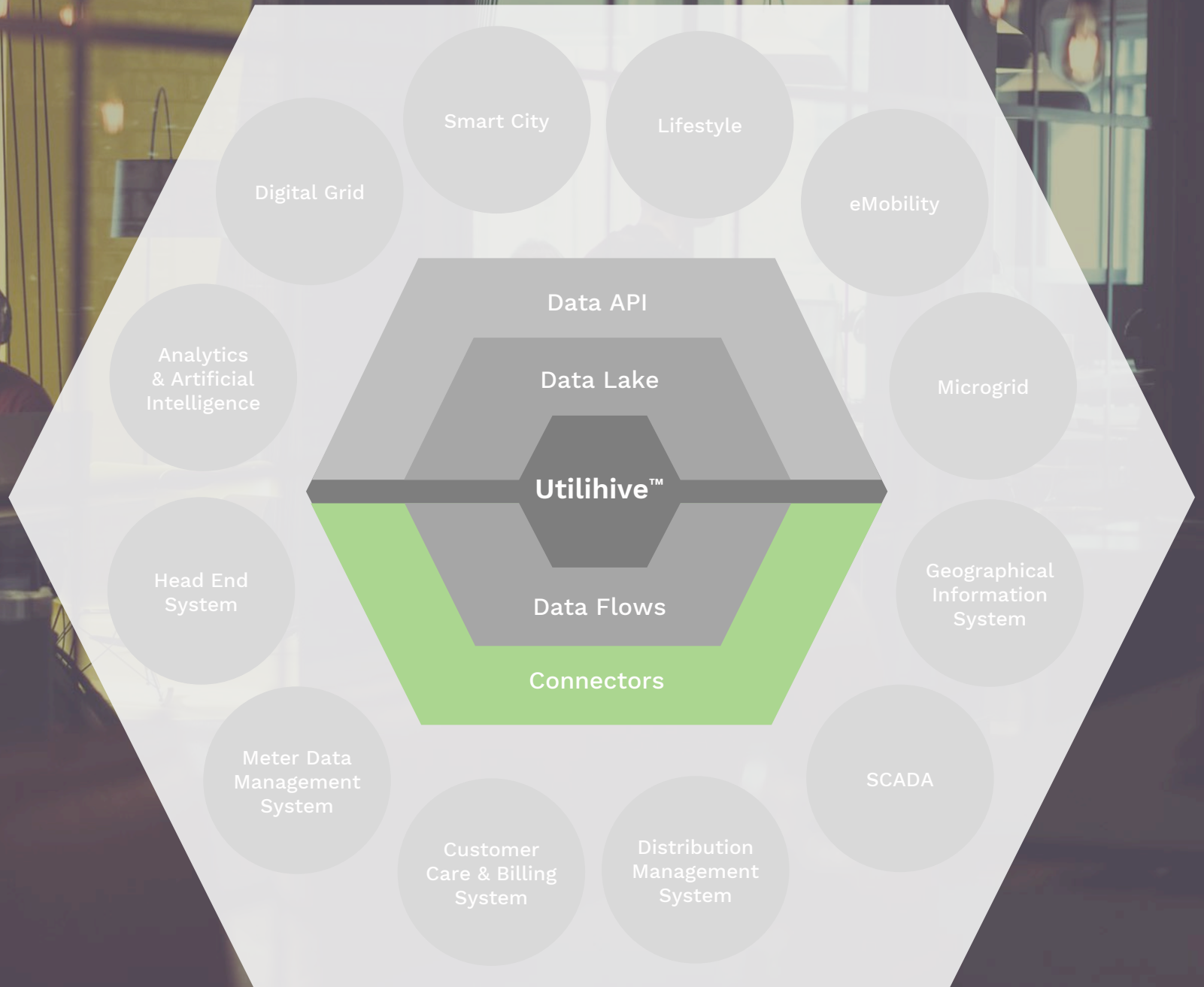Customer Care & Billing System

Distribution Management System

Utilihive Connectors

Prebuilt **Utilihive Connectors** for **leading software vendors** for utilities

Connects new software solutions **in days** instead of spending months on custom development

Required updates are included in **the Utilihive subscription**

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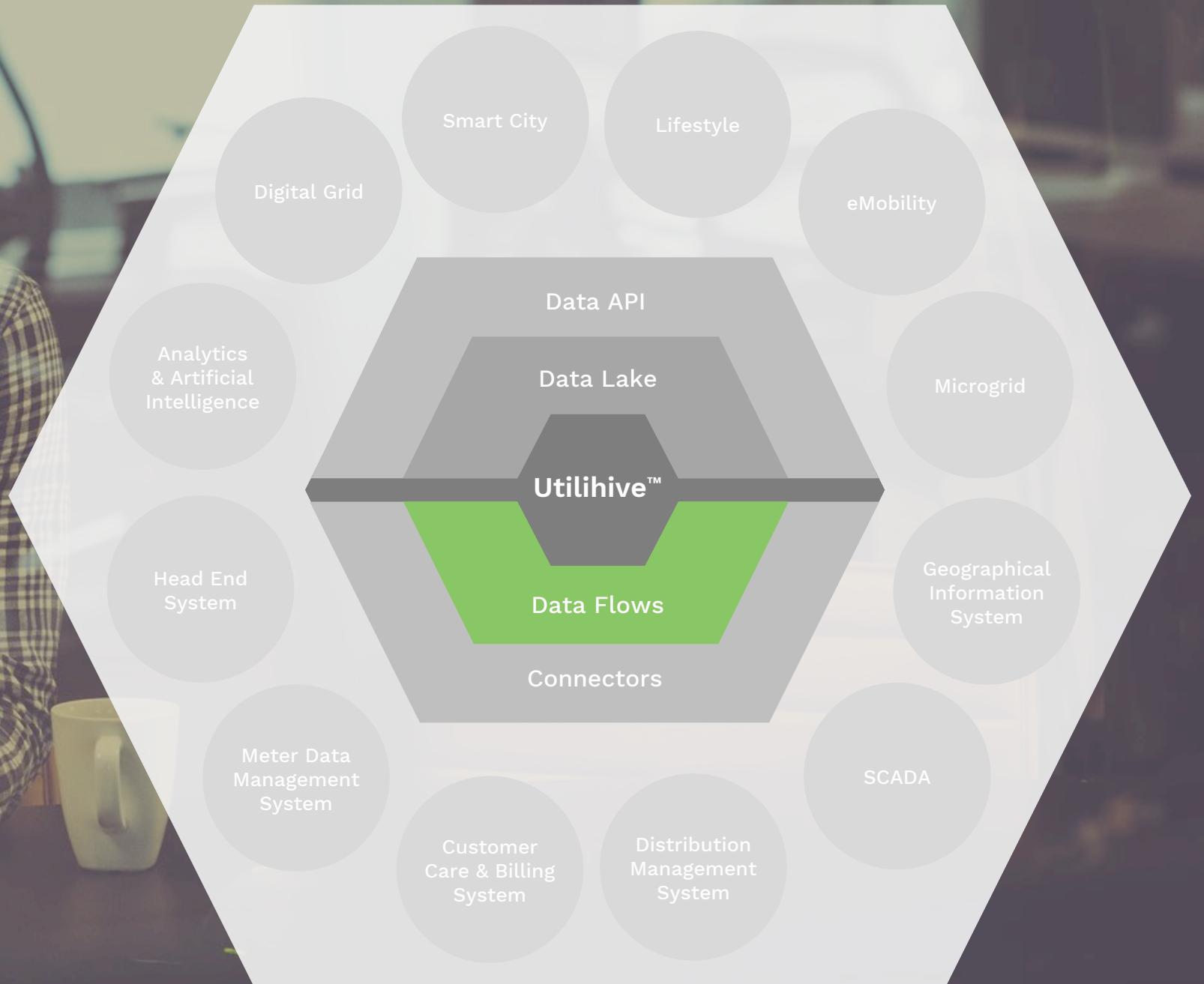
Distribution Management System

Utilihive Data Flows

Out-of-the box **integration applications** supporting **business processes such as meter-to-cash**

Easily **share data from your smart metering infrastructure** with **meter data management systems, DMS, SCADA** and the **new breed of technology solutions** based on **artificial intelligence**.

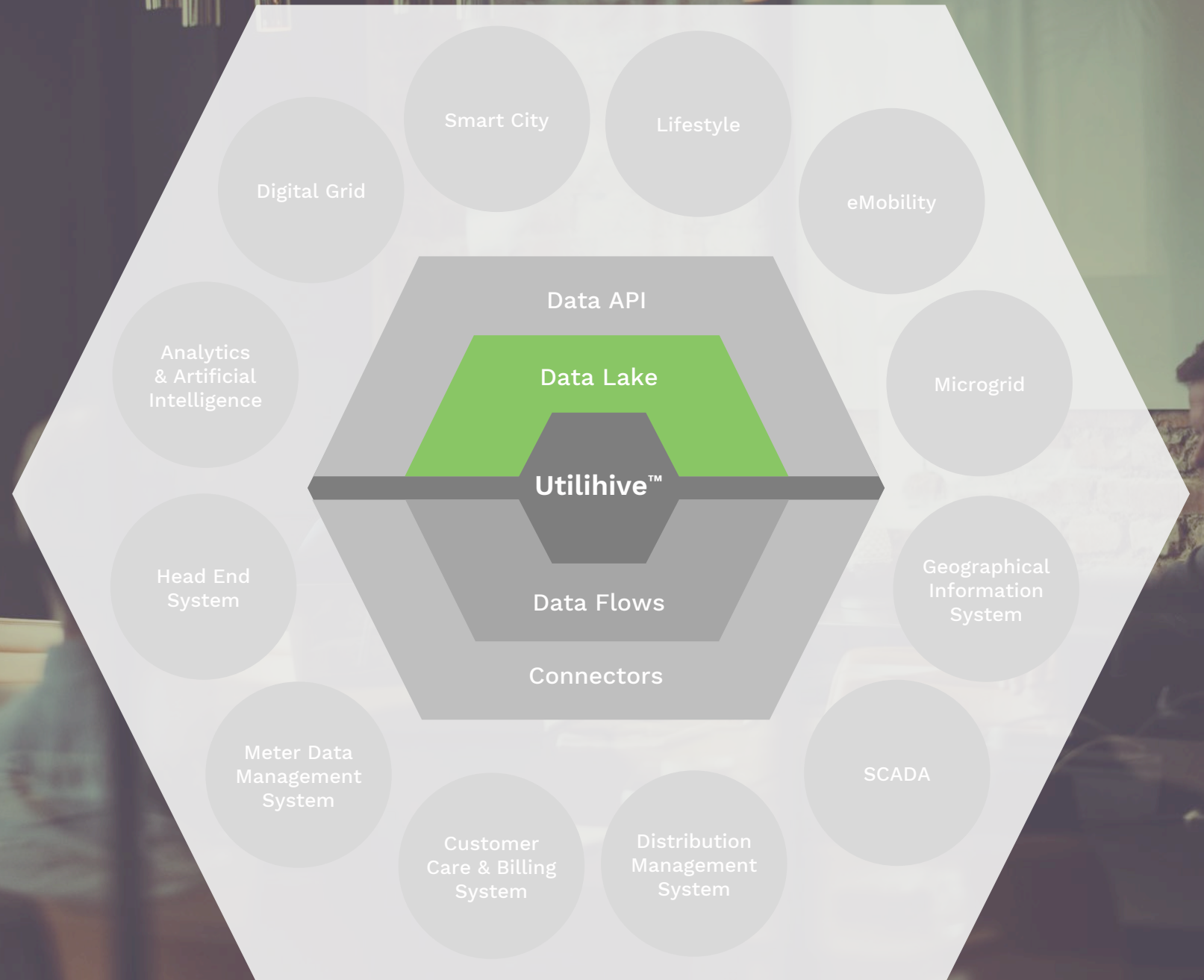**No lengthy integration** project and coding is required

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Utilihive Data Lake

The **new breed of technology providers** enabling the **data driven utility** require **access to data** across a **wide range of legacy systems**

Optimized storage for **fast data** and **analytical data** to minimize costs and to **deliver required performance**

Most data is stored in the **CIM data format**, the **global industry standard for utilities**
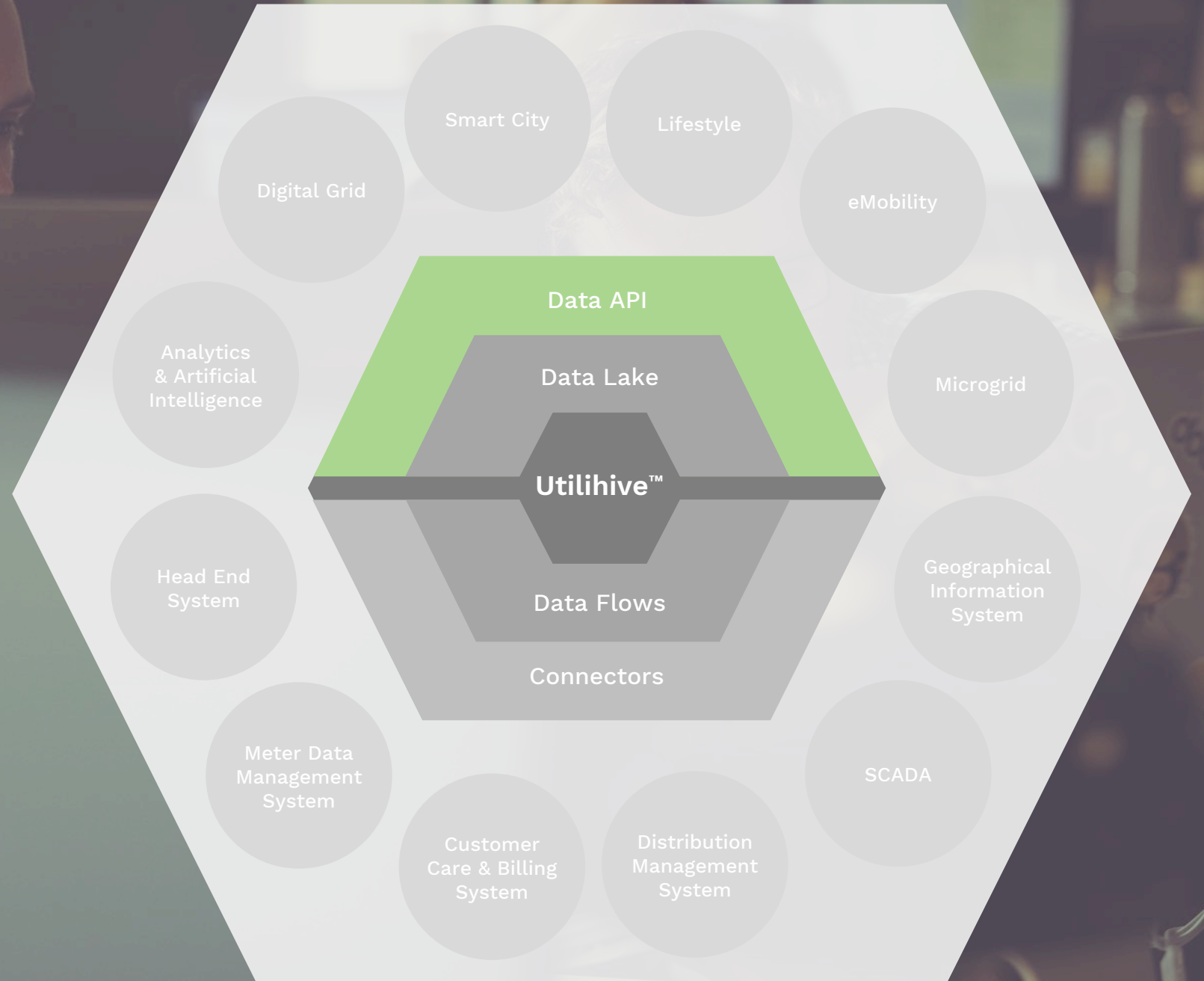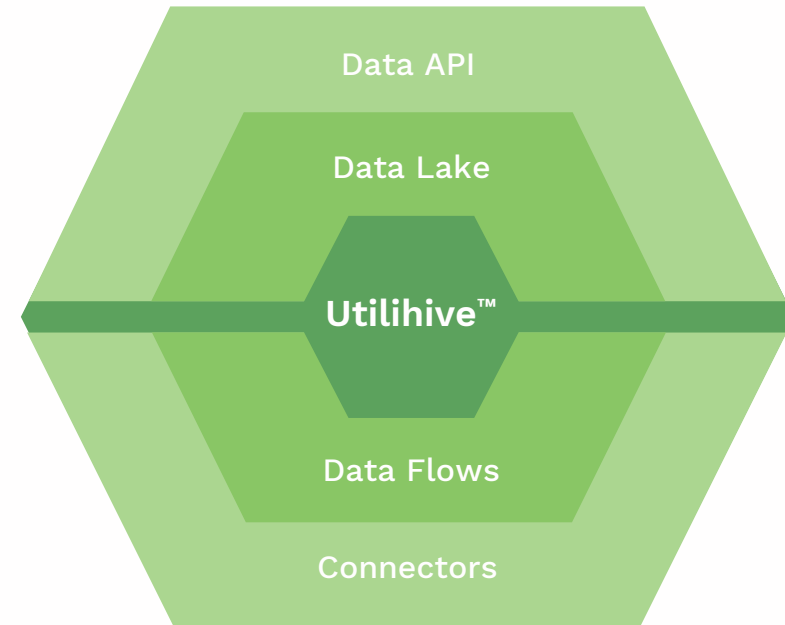
Utilihive is Powered by Microsoft Azure

Built with cloud native components to scale in the cloud

Utilihive Data Lake and Utilihive Data API
Utilihive Data Lake supports multiple underlying storage technologies like Azure Synapse, Azure Cosmos DB, Azure HDInsight, Azure Blobs and Azure SQL Database. Azure Databricks is used to support machine learning and analytics.

Utilihive Data Flows and Utilihive Connectors
The core components in Utilihive is running on containers on Azure Kubernetes Service. Azure IoT Hub and Azure Event Hubs combined with Azure Functions is used for streaming ingestion and analytics.

Data API

Data Lake

Utilihive™

Data Flows

Connectors

Gartner

Cool
Vendor
2018
™

"Application leaders responsible for **integration strategy and infrastructure for utility companies** should **evaluate Greenbird's domain-specific iPaaS offering, Utilihve**, for time-to-market-constrained **smart metering and smart grid initiatives** for which there is **substantial integration work to be performed**."

"Cool Vendors in Application Architecture, Infrastructure and Integration" by Eric Thoo, Massimo Pezzini, Aashish Gupta and Bindi Bhullar , May 2018

Utilihive Partner Ecosystem

Utilizing the **new breed of technology companies** that is accelerating the energy revolution will be **vital for digital utilities**.

Seamless data exchange delivered by Utilihive will empower utilities to **move fast and drive innovation**.

Technology and services from partners in the **Utilihive Partner Ecosystem** can be **configured in days instead of months with traditional system integration**

Odit-e ADAPTRICITY

GRIDCURE

KONGSBERG

mycroftmind.

GRIDWATCH

Data API

Data Lake

Utilihive™

Greenlytics

VENIOS®

Data Flows

GreenPocket

Connectors

powel

SIEMENS

CUCULUS

energyworx

100 % Focused on Accelerating the Energy Revolution

2010	Founded to develop Utilihive
2013	80 % market penetration in Norway
2015	Signed Utilihive contract with Smarthub
2017	Utilihive contract in the Middle East
2018	Signed Utilihive contracts with EnBW, TPC
2020	5 million Euro Series B venture capital funding

EnBW | New Ventures   nysnø Climate Investments   etf partners