

TECHNOLOGY BEST PRACTICES, 2<sup>ND</sup> OCT 2018

# BACKPROPAGATION TO FUTURE

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## TRANSFORMING PLATFORMS

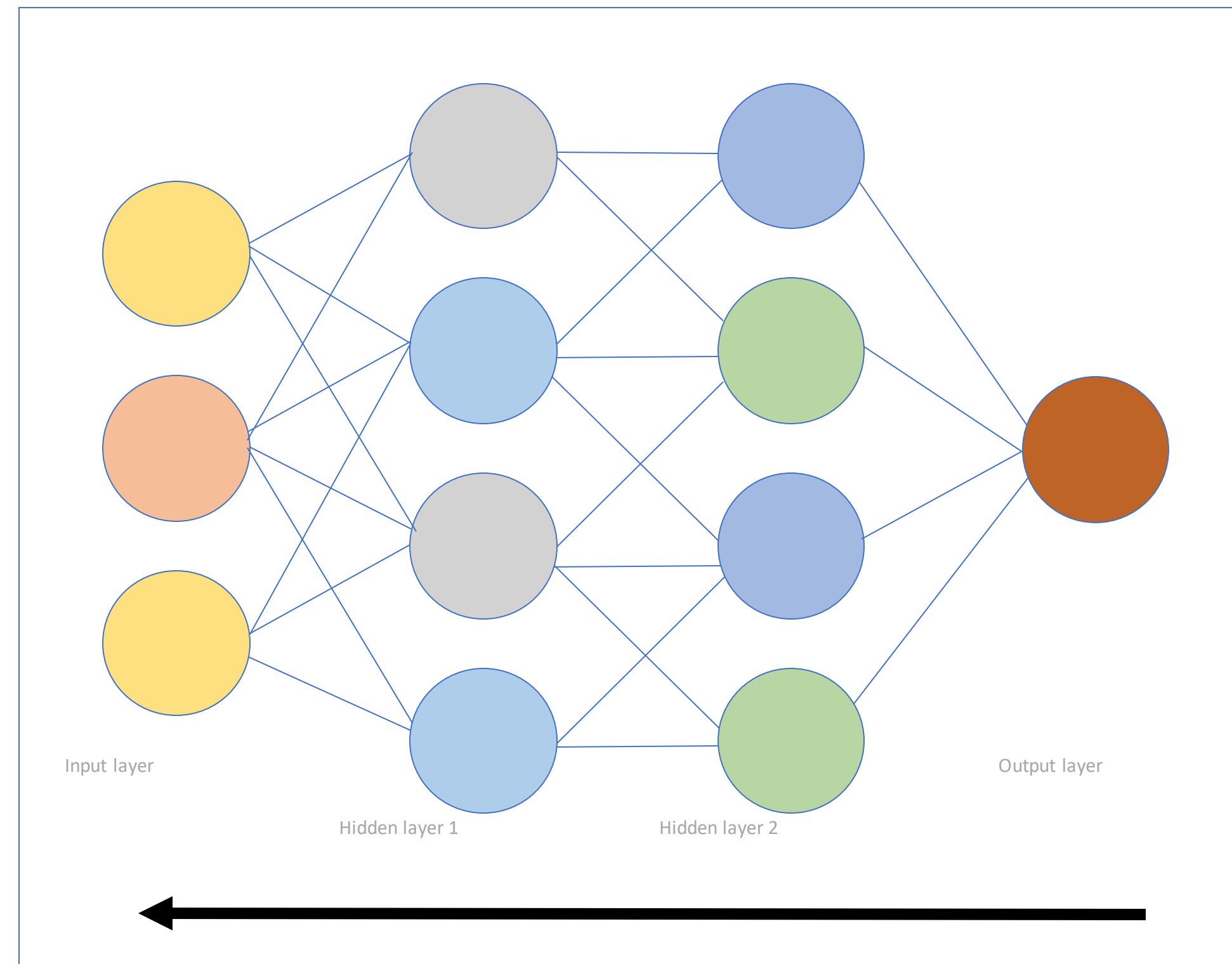
Gagan Madhwal  
NINESTARS

# BACKPROPAGATION IN AI

IT IS AN ALGORITHM FOR SUPERVISED LEARNING OF ARTIFICIAL NEURAL NETWORKS USING GRADIENT DESCENT THAT DETERMINES THE WEIGHT OF EACH NEURON.



Varied Input



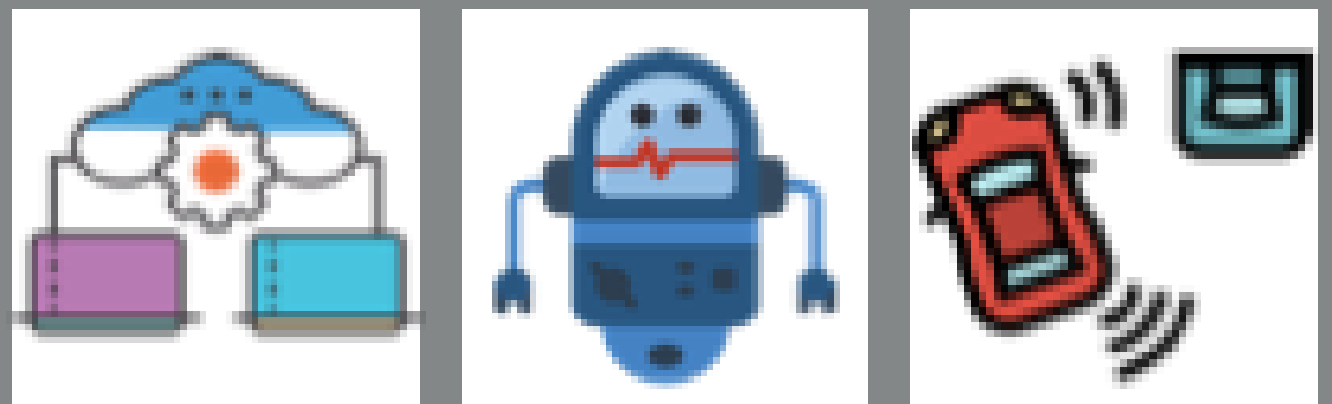
Work Backwards



Desired Output


# BACKPROPAGATION IN MMO CONTEXT

## Data Explosion

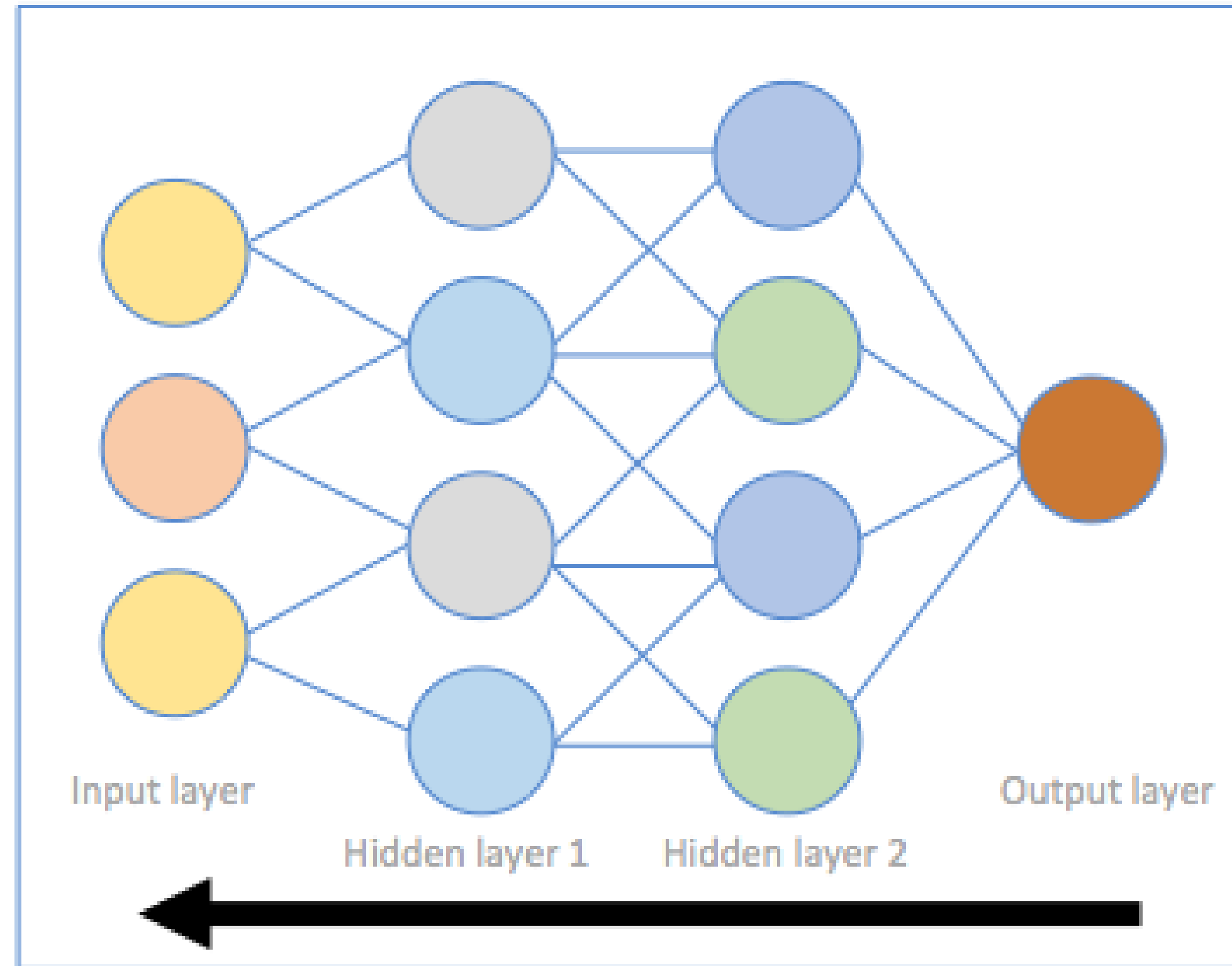


Digital Assistant      Chatbots      Sensors/IoT

## Market Expectations

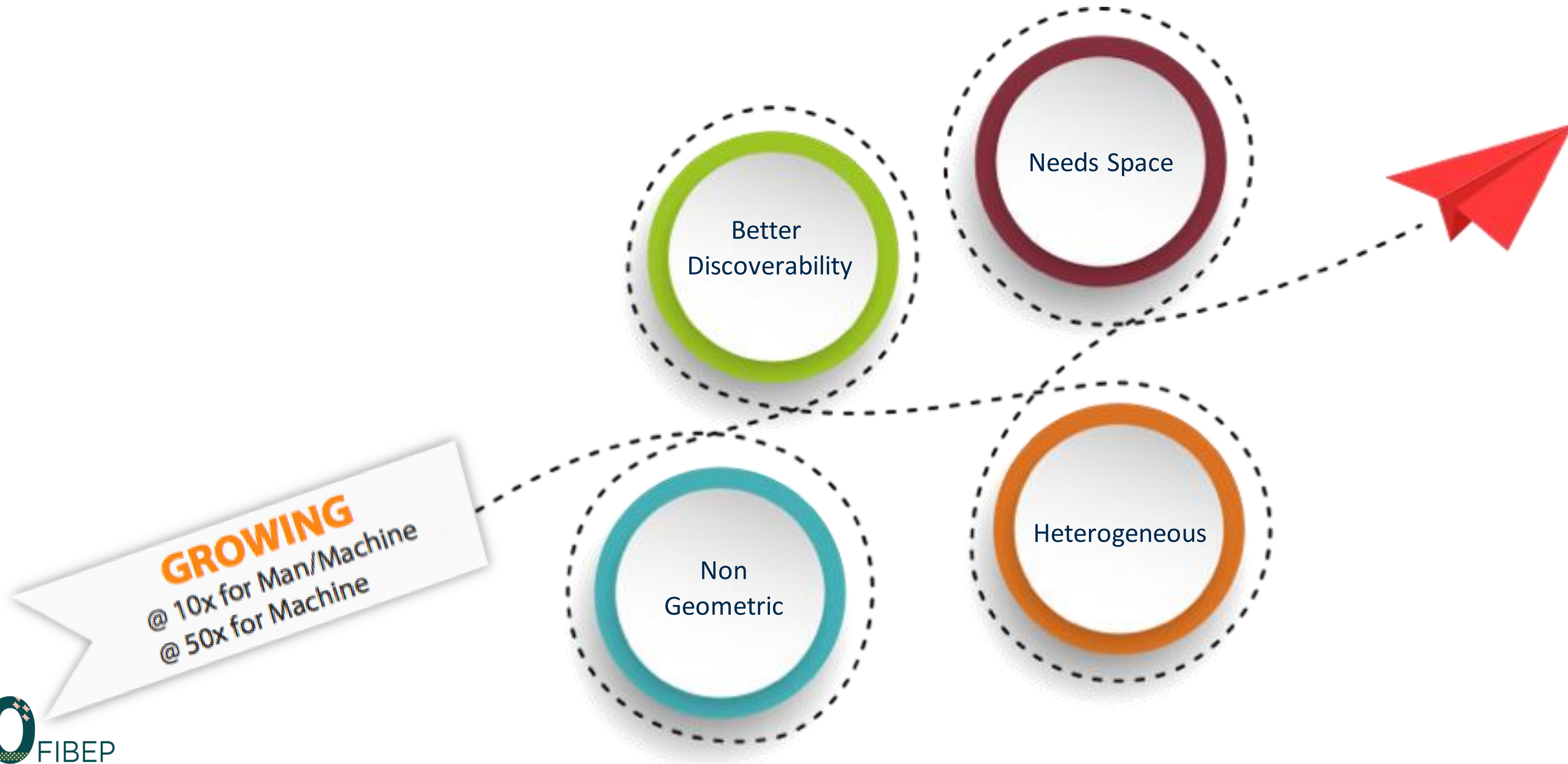


Improved ROI      Quicker Decisions      Agile



Re-imagine

# DATA EXPLOSION



# DATA & LEARNING EVOLUTION

- Data Anywhere
- Data Everywhere
- Data Known

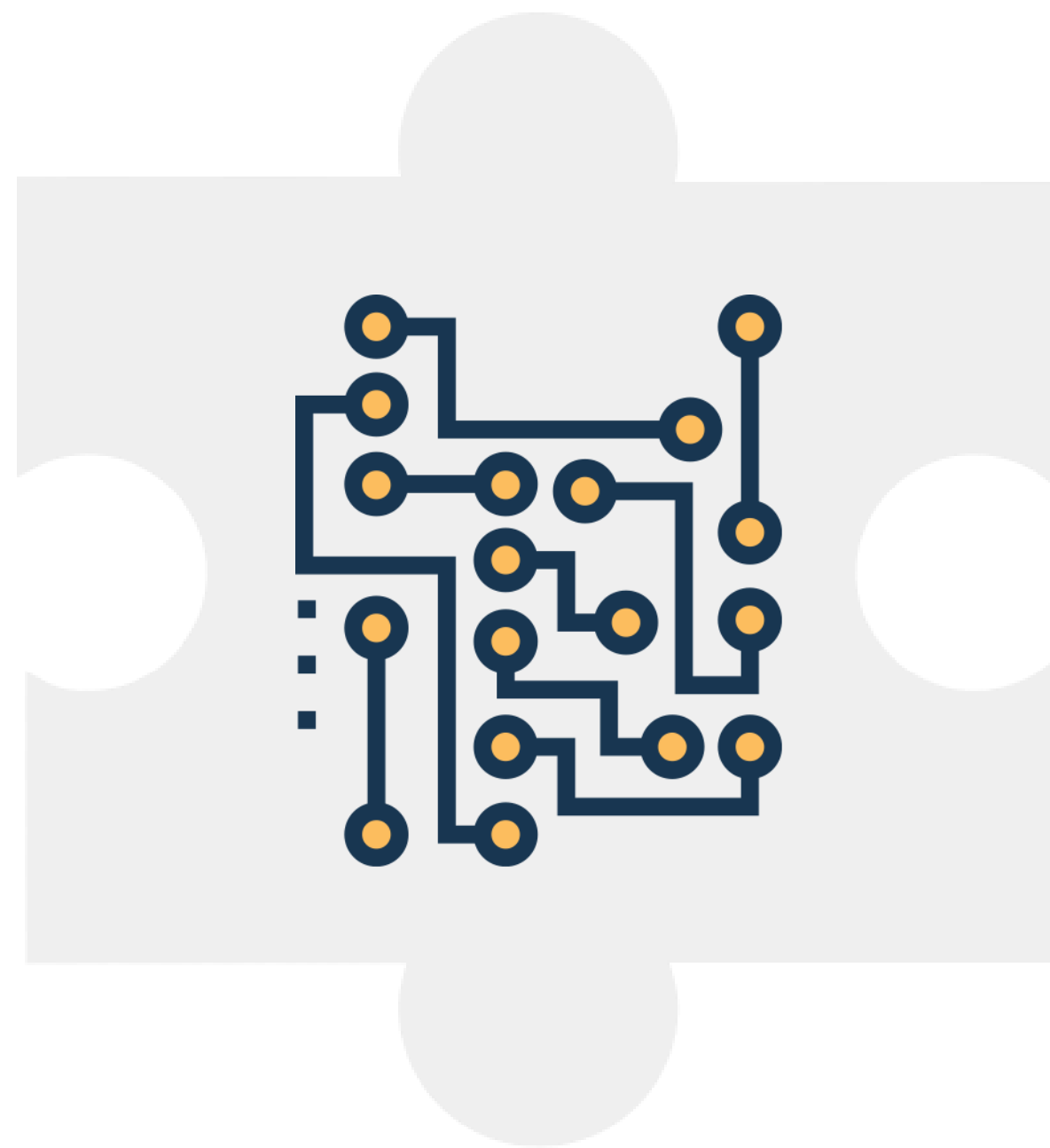


- Tech Readiness
- Data Readiness

# FUTURE READINESS

- ▶ Data Visibility & Discoverability
- ▶ Customization of AI models for Data & Outcome
- ▶ Data governance for next-generation platforms
  
- ▶ Edge computing & multi dimensional data processing
- ▶ Simplify data management through automation
- ▶ Manage growth and operational cost

# MODERN PLATFORM – BEST PRACTICE



**DISTRIBUTED**

## Architecture

Open Source | API | RESTful

## Data Centric

Data Lake | Data Store | Metadata

## Scale

Multi-tenant Elasticity | Data Complexity | Performance

# MODERN PLATFORM – BEST PRACTICE



**FLEXIBILITY**

## **Plug & Play**

Configuration | Existing System

## **Cloud Agnostic**

Public | Private

## **Seamless Deployment**

Containerization | Orchestration



# MODERN PLATFORM – BEST PRACTICE



**STREAMING**

## **High Volume**

Ingest | Compute | Deliver

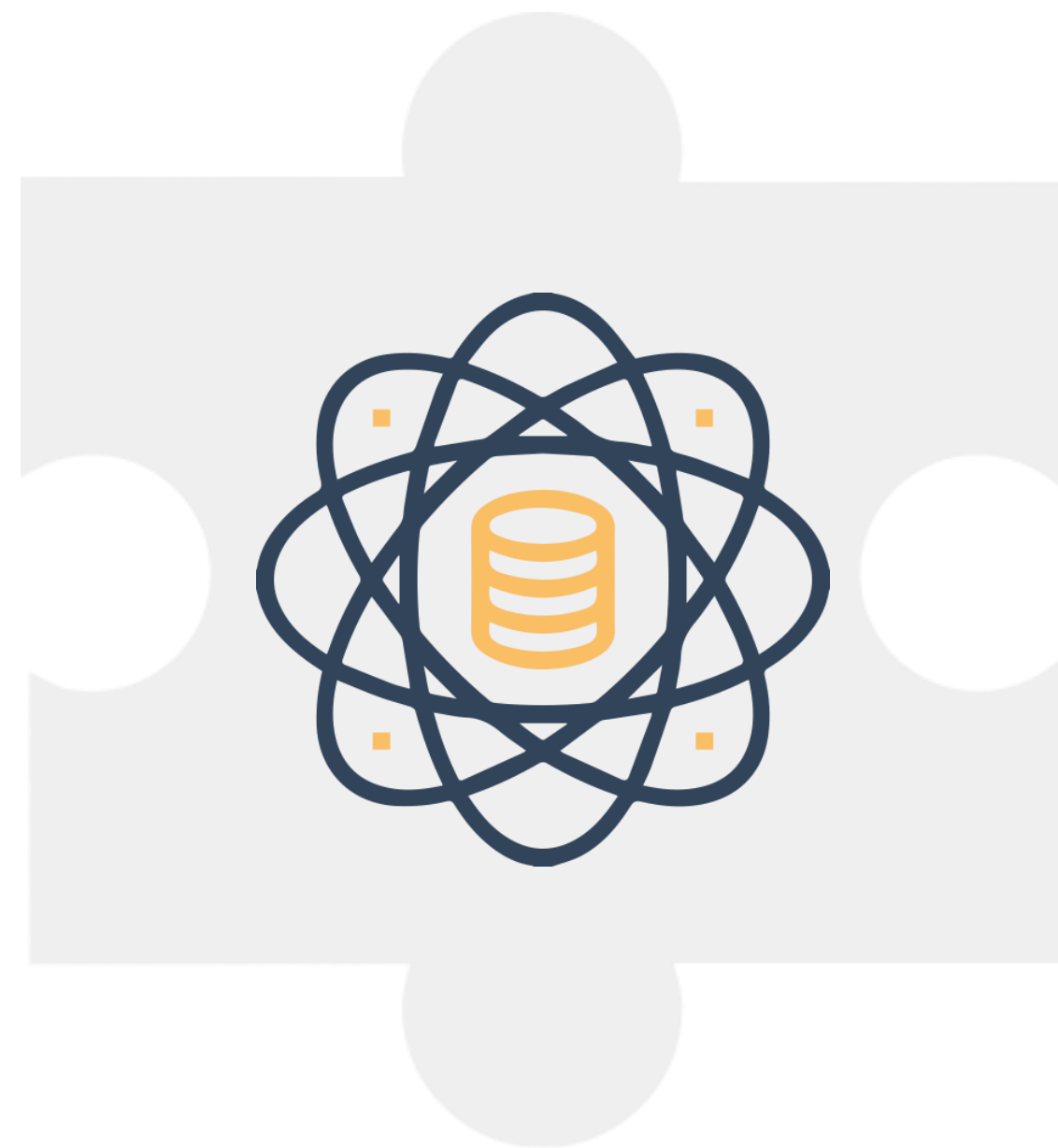
## **Accuracy Guarantee**

Cluster Failure | Data Variations

## **Low Latency**

Reports | Dashboards

# MODERN PLATFORM – BEST PRACTICE



**DATA SCIENCE**

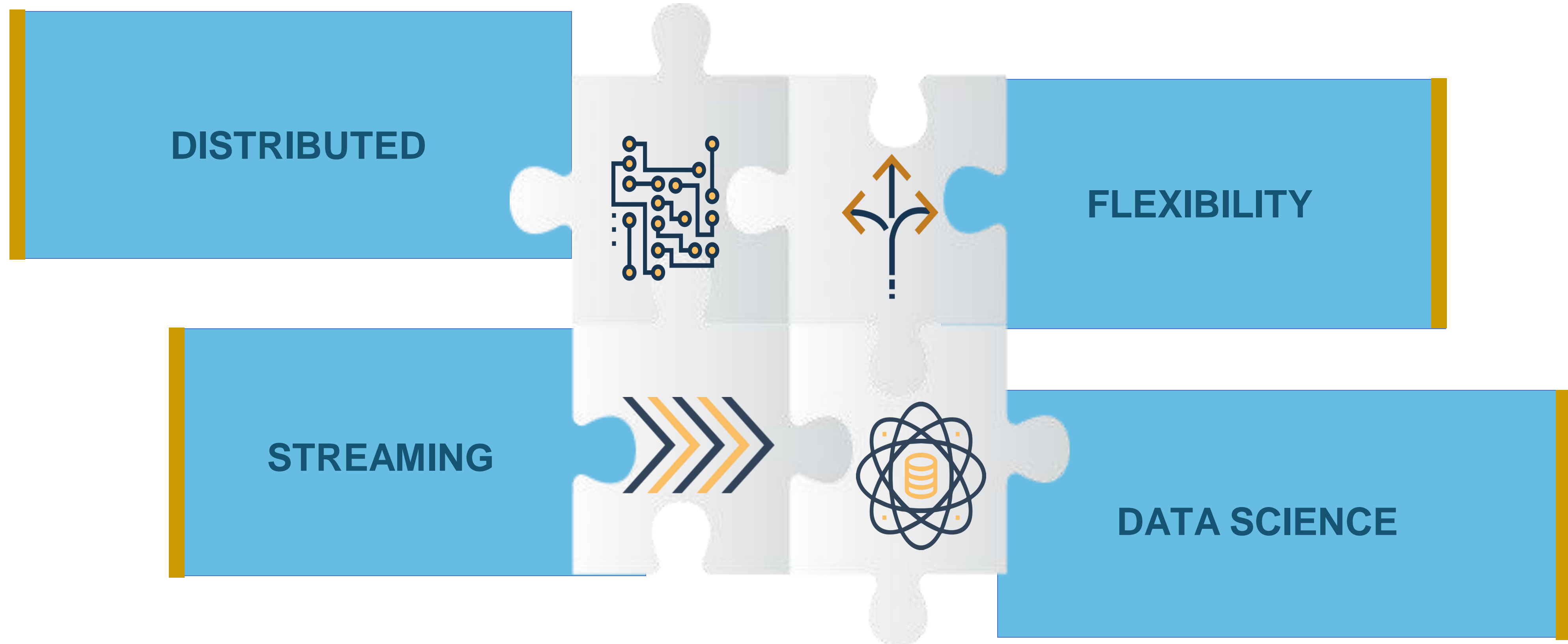
## Learning Framework

Process | Tools | Standards

## AI Ecosystem

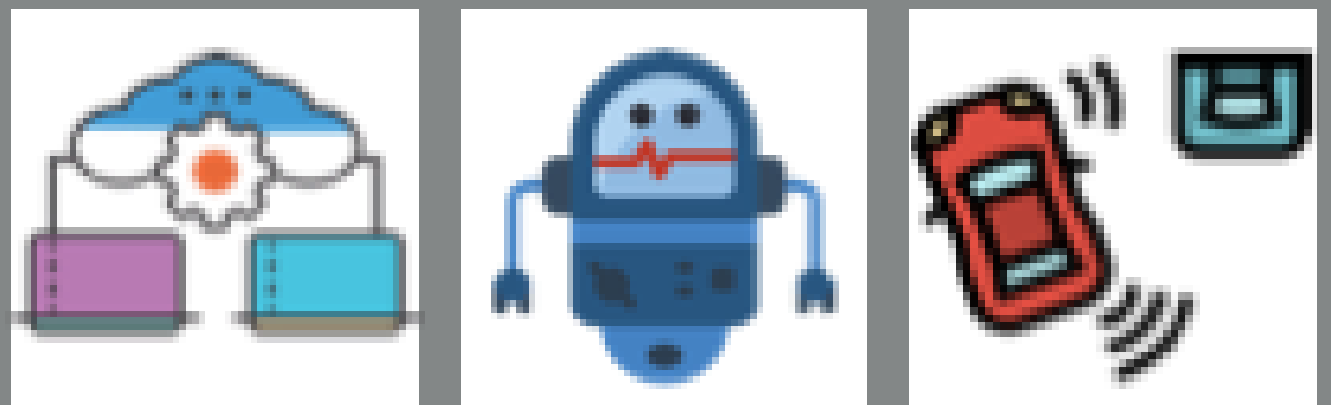
User Profile | Model Workbench | Data View

# SUMMARIZING EXPERIENCE



# RE-CAP : TRANSFORMING PLATFORMS

## Data Explosion




Digital Assistant

Chatbots

Sensors/ IoT

## Market Expectations



Improved ROI

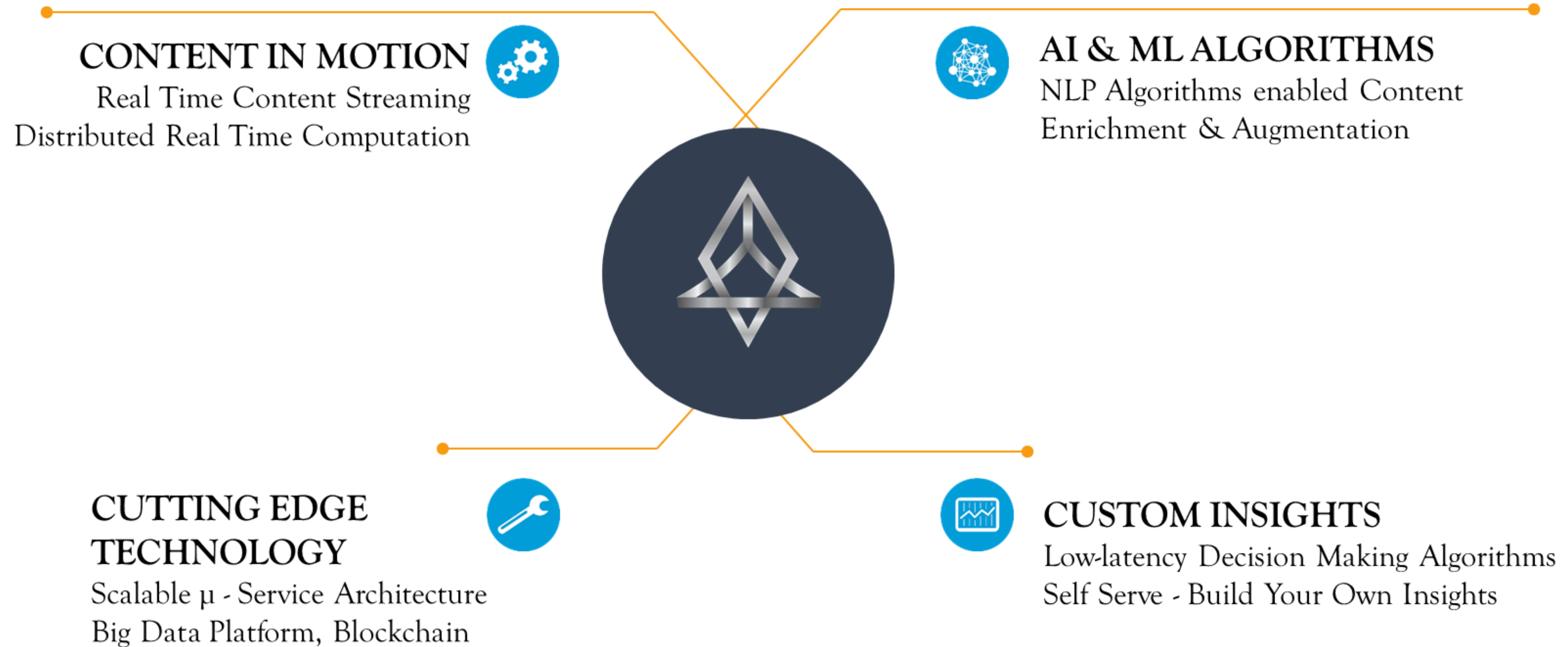
Quicker Decisions

Agile



## Continuous Improvements

# ENGAGE TO DIFFERENTIATE





THANK YOU