

Using People
Productivity Analytics to
Power Business Decisions
Microsoft 365 & Azure Synapse





Digital transformation enables new ways of working, impacting productivity, engagement and culture

New business models, such as hybrid, change collaboration and how work gets done Continued investments in collaboration tools enable new business models

Digital transformation drives organizational, productivity and culture

Data-driven approach to measure impact, identify opportunities











Data-driven people-centric decision making and insight generation remain key obstacles



Productivity, engagement and culture impact of digital transformation are difficult to measure



Adoption rates for newly implemented collaboration tools often stay lower than expected



Despite new business models such as hybrid, employee engagement remains low, burn out high



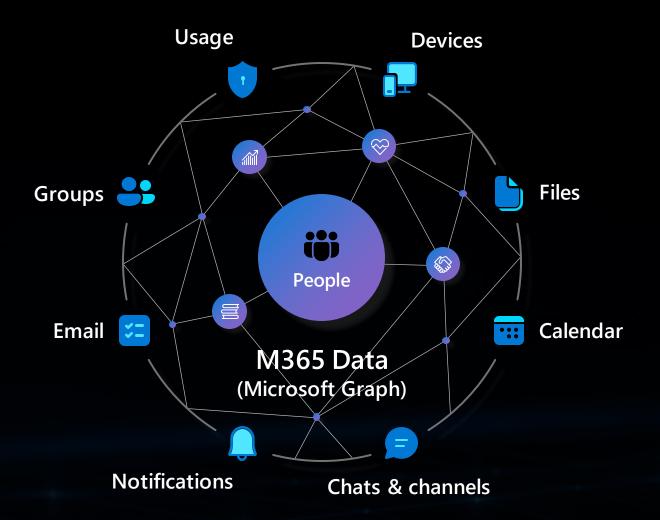
Data estates to support decision making and insight generation remain fragmented



Collaboration and employee experience data – while native to each enterprise – is often underutilized



Discover the patterns of collaboration and engagement to drive digital, culture, and process transformation





Improve visibility of employee engagement, collaboration and communication



Scale and optimize personalization of employee engagement



Democratize intelligence and insight across the workforce



Improve employee productivity, efficiency, and effectiveness



Free up personnel and resources to work on higher-value activities



People Productivity Analytics Use Cases



Culture Driven Digital Transformation

Leverage Productivity Score and usage data to drive and measure impactful Digital Transformation initiatives



Employee Engagement and Productivity

Extend Viva Insights collaboration metrics into your Azure environment and augment employee engagement insights with deeper analytics



Hybrid Work Effectiveness

Enable hybrid work models and effectively balance people, technology and workplace requirements between in-person and remote



Organizational Network Analysis

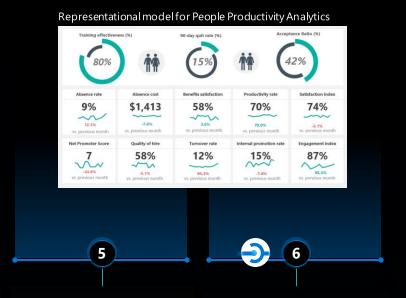
Harness information flows and team connectivity to unlock productivity, innovation, employee engagement and organizational change



People Productivity Analytics – How it works

Understand how employee activities power innovation, facilitate organizational efficiency, streamline processes, and enable your business





Connect M365 data to Azure Synapse Continuously
collect and store
collaboration
data in Azure.
Combine with
other relevant
data sources

Analyze data to detect relationships between online collaboration and employee actions

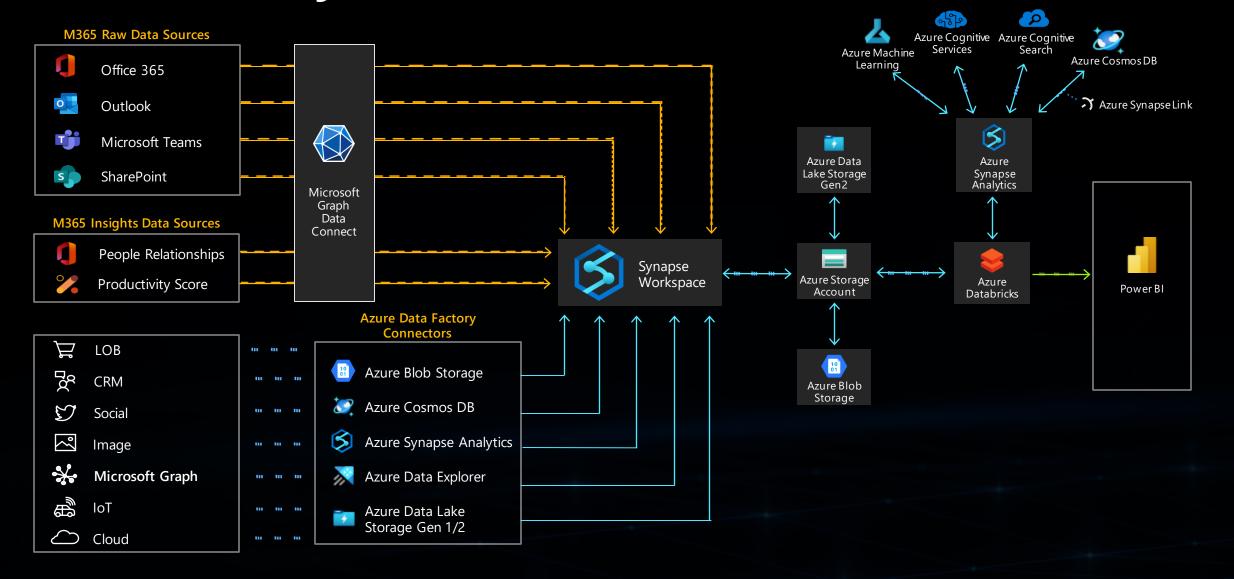
Build predictive machine learning algorithms.
Deploy in the cloud or the edge

Build dashboards to flag potential opportunities for improved collaboration and engagement

Connect it to your management and HR applications to proactively address



M365 Analytics Architecture





Extend Existing People Productivity Insights



Use Cases	Initial Challenge	Initial Solution
Culture Driven Digital Transformation	Convoluted, manual operations stifle productivity and collaboration resulting in inefficient processes	Digital transformation through best of breed technology and process automation increase agility, productivity, and engagement
Employee Engagement and Productivity	No insights into team productivity, collaboration, and culture. Desire to assess how work gets done, drive employee wellbeing, and retention	Traditional HR systems include goals, sentiment score, and employee life cycle
Hybrid Work Effectiveness	Global disruption forces new work models (remote and hybrid) at massive scale. Tools that support new work models that are not yet in place	Investment in collaboration tools so teams can stay engaged and productive in a remote and hybrid work environment
Organizational Network Analysis	Find the sources of outdated, manual operations in organizations. Desire to increase agility by identifying information flows and key connectors	Consultative engagements and survey driven Organizational Network Analyses approaches drive organizational insights

practice dissemination. Inability to measure behavioral changes and identify a path to a more agile, productive organization

Data-driven approach to people productivity remains elusive. Desire to combine collaboration data in larger data estates for advanced insights

Hybrid is the new normal. Inability to measure engagement, productivity, and wellbeing remain. Employees continue to feel isolated

ONA engagements are often intrusive, point-in-time, and lack accuracy. Proliferation of ONA in organizational agility initiatives require scalable solutions

measure tool usage, identify best practices, boost collaboration culture, and drive organizational change. Ability to monitor tool ROI efficiently

Use collaboration data from Viva and collaboration tool usage to generate insights and model retention, promotion, and employee satisfaction

Use M365 data to assess hybrid model effectiveness, leverage for real estate footprint, and drive innovative employee engagement processes and tools

Passive ONA approaches leverages M365 data for increased accuracy and ease of use. Ability to flexibly integrate into people productivity, agility, and transformation approaches



Culture Driven Digital Transformation

Leverage Productivity Score and Usage data to drive and measure impactful Digital Transformation initiatives



Today's Challenges



Many new tool adopted but with unclear impact on collaboration, productivity, agility, and culture



Failure to uncover opportunities for tool rationalization: Usage and performance



Inability to justify spend/ROI. Customers are reducing cost by consolidating technology

Culture Driven Digital Transformation Overview



Measure effectiveness and goal achievement to support digital transformation and tool investment

Assess opportunities to drive further culture change through digital transformation and collaboration tools

Rationalize tool usage and access to drive impact, rationalize tool footprint and costs Transform the employee experience through predictive modeling, engagement, and wellbeing outcomes









BENEFITS

Rationalize impact of digital transformation and license/tool spent

Measure impact of digital transformation on agility, collaboration and engagement

Increase employee productivity and engagement

Use Case: Culture Driven Digital Transformation



American healthcare conglomerate accelerates leadership development initiatives with MGDC collaboration insights

BUSINESS CHALLENGE

- To cultivate and retain top executives amid a global talent war, the customer sought to develop a leadership excellence program grounded in the differentiating characteristics of its most effective leaders
- The company lacked access to objective collaboration data that would provide insight into the behavioral patterns of high performing executives

SOLUTION

- Customer selected Microsoft Graph Data Connect to gather and analyze collaboration data from Microsoft Outlook and Microsoft Teams chat and calls
- Data analysts investigated impact of executives' communication with teams, and activity focus on objective leadership performance measures
- Predictive models to assess retention risk, promotion potential

RESULT

- Findings from data will inform development of leadership coaching and development programs
- Tangential discoveries within collaboration dataset will also support executive succession planning strategies
- Solution rollout ongoing (early FY22)

SOLUTION ELEMENTS



Microsoft Graph Data Connect











Azure Synapse

Intelligent data sets to measure impact and improvement opportunity of Digital Transformation

Complement "raw" collaboration data with insights into digital work adoption and impact on productivity, engagement and collaboration

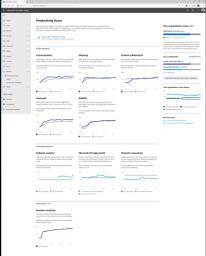






Productivity Score provides insights about how your organization digitally transforms

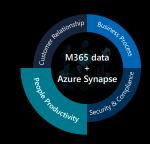
- Metrics to measure M365 transformation
- Opportunities to improve productivity
- Status of best-practice achievement



M365 Usage data helps measure M365 to uncover improvement areas

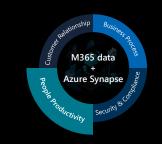
- Outlook, Teams, SharePoint, M365 Licenses
- Granularity on user level
- License cost, transformation opportunities



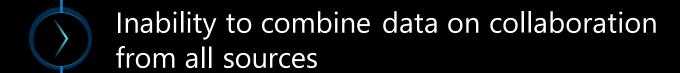


Employee Engagement and Productivity

Extend Viva Insights collaboration metrics into your Azure environment and augment employee engagement insights with deeper analytics



Today's Challenges



- Cumbersome customization of insight generation to your needs
- Lack of insights flexibility between cooked and raw data
- Fragmented sources for collaboration, productivity and engagement data

Employee Engagement and Productivity Overview



Data extensibility – Extend Viva Insights metrics into your Azure environment and data lake Insights extensibility –
Complement
collaboration insights
from Viva Insights with
other data sources from
M365 and beyond

of your digital transformation initiatives on collaboration culture, engagement and organizational agility



Build predictive models on retention, wellbeing, productivity and agility







BENEFITS

Holistic collaboration and productivity view

Measuring digital, tool transformation through collab metrics

Increase employee productivity and engagement

Case Study: Employee Engagement and Productivity

Global telecom giant exposes and eliminates wasteful, cyclical processes to enhance employee productivity and wellbeing



BUSINESS CHALLENGE

- Customer suffered from overwhelming volume of unnecessary authorization requests
- High volume of official 'spam' distracted from key priorities and undermined engagement and employee productivity
- Firm's data science team was charged with investigating origin of needless requests, but lacked sufficient data to determine root cause

SOLUTION

- Customer selected Microsoft Graph Data Connect together with Viva Insights metrics to gather and analyze previously inaccessible raw collaboration data from Microsoft Outlook and Teams
- Data science members diagnosed burdensome steps in the authorization process and introduced new prioritization methods to reduce process noise and increase process efficiency

RESULT

- Solution rollout ongoing
- Scaling to regional population to measure enhanced process efficiency and accelerated decision-making
 - Improve hybrid experience using Teams activity and transcripts
 - 2. Optimize internal comms to coincide with maximum read/response rates

SOLUTION ELEMENTS



Microsoft Graph Data Connect











Azure Synapse

Case Study: Employee Engagement and Productivity

Azure Synapse and M365 data unlock collaboration patterns and enrich talent strategy



BUSINESS CHALLENGE

- To strengthen its industry leadership in LATAM, customer sought to enhance existing talent and operational strategies with collaboration data to assess cross geo collaboration and project investments
- Customer lacked inputs from existing analytics tools to support these investigations; momentum for the initiative stalled

SOLUTION

- Customer turned to Microsoft Graph Data Connect to complement Viva Insights to provide missing inputs to execute its objectives
- Collaboration data from key business units was extracted from Outlook email and calendar with MGDC, modeled in Azure Databricks, and surfaced in PowerBI dashboards for use by business decision makers

RESULT

- M365 informs the development of a novel Employee Productivity & Insights 360 program aimed at maturing the customer's talent strategy
- Additional insights into group connectivity and topic modeling help leadership break down silos, promote knowledge sharing, and improve visibility into business-critical processes

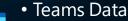
SOLUTION ELEMENTS



Microsoft Graph Data Connect



Microsoft 365



- Email Data
- Meeting Data



LOB Data



Azure Synapse

Employee Engagement, Productivity Accelerator Data Table Template – COMING SOON



Data Flattening

Data normalization

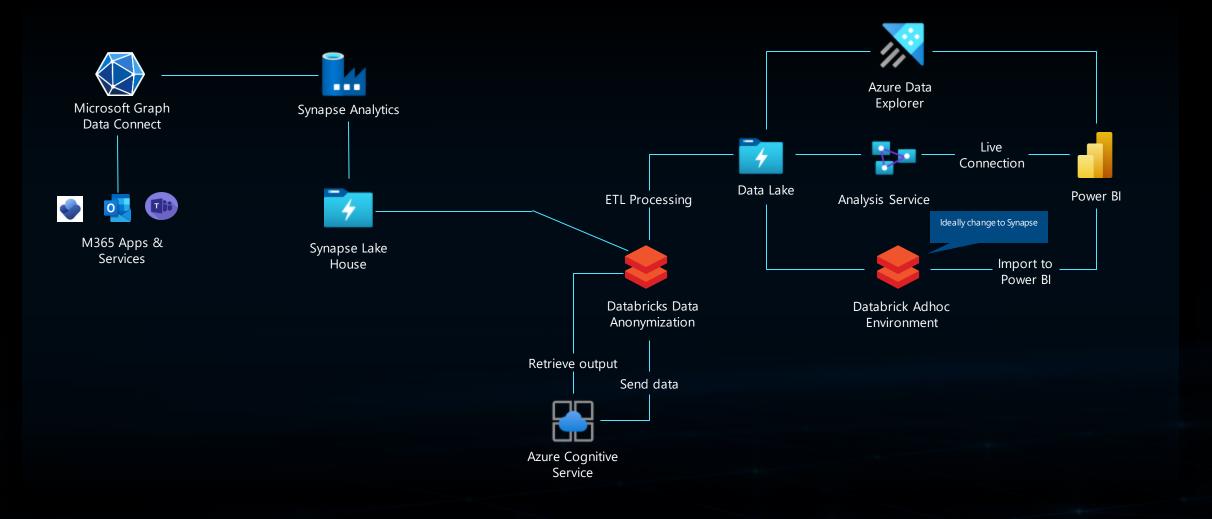
Data cleansing, de-dub

- No-code, 1-click deployment in Azure
- Accelerated path to value – Queries, dashboards, visualization, deeper solutions



Employee Engagement, Productivity Accelerator Data Table Template Architecture – COMING SOON





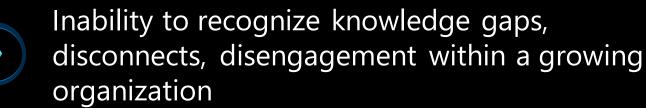


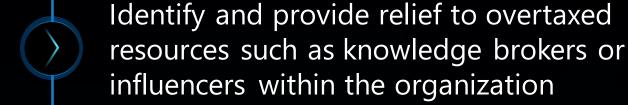
Organizational Network Analysis

Harness information flows and team connectivity to unlock productivity, innovation, employee engagement and organizational change



Today's Challenges





Lack of insight into effectiveness of reorganizations, onboarding, training, and cross pillar collaboration (long term effects)

Organizational Network Analysis Solution



Extend Viva Insights collaboration metrics to detect patterns of communication and information flows and blockers

Leverage ONA metrics to find opportunities to enhance connectivity, agility between internal and external teams

Gain insights into key productivity use cases, including innovation, agility, isolated and over stressed teams, inclusiveness or effectiveness of organizational change

Assess the effectiveness of organizational, culture and digital transformations and discover blind spots









BENEFITS

Increase ROI: Measure the impact organizational shifts

Improved Organizational Efficiency: Create new process

Predict Business Outcomes: Analyze trends

Case Study: Organizational Network Analysis

M365 data

Azure Synapse

Adultativity

Security

Activity

Activi

Multi-national chemical company with over \$40B in revenue providing a baseline and measurement framework to increase inclusiveness

BUSINESS CHALLENGE

- Leading chemical company with exemplary Diversity and Inclusion programs
- Desire to measure program impact, further discover inclusiveness "blind spots"
- Proactively identify opportunities and potential attrition risks
- Provide a fact-base, passive mechanism for leadership visibility

SOLUTION

- Engaged with MGDC partner Axiom and their InclusivX solution
 - Leverage existing M365 collaboration data
 - Apply network science and Al engine
 - Deliver target analytics to enhance employee experience
- Deliver relevant dashboards assessing accessibility, balance, community and connectedness

RESULT

- Ability to passively measure impact of D&I initiatives
- Access to a leading-edge analytics platform and the opportunity to help shape its future direction
- Fact-base to craft workable inclusion, team effectiveness and organization strategies



SOLUTION ELEMENTS



Microsoft Graph Data Connect





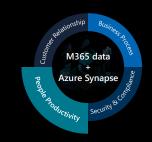




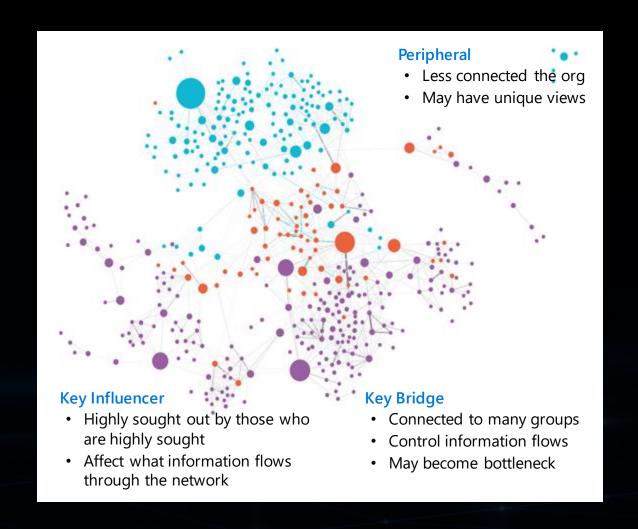


Organizational Network Analysis Accelerator

ONA Template – COMING SOON for Viva Insights customers



- Structured way to analyze how information flows
 - Network connectivity key to many use cases
 - Team Productivity
 - Agility and Innovation
 - **Employee Engagement**
 - Leadership Communication
 - Inclusiveness
 - Measuring Impact of Organizational Change
- ONA Accelerator provides critical ONA metrics, based on M365 collaboration tools
- ONA Accelerator helps visualize connectivity
- Accelerator leverages Viva Insights metrics and other M365 collaboration data for "passive" ONA



Organizational Network Analysis Accelerator

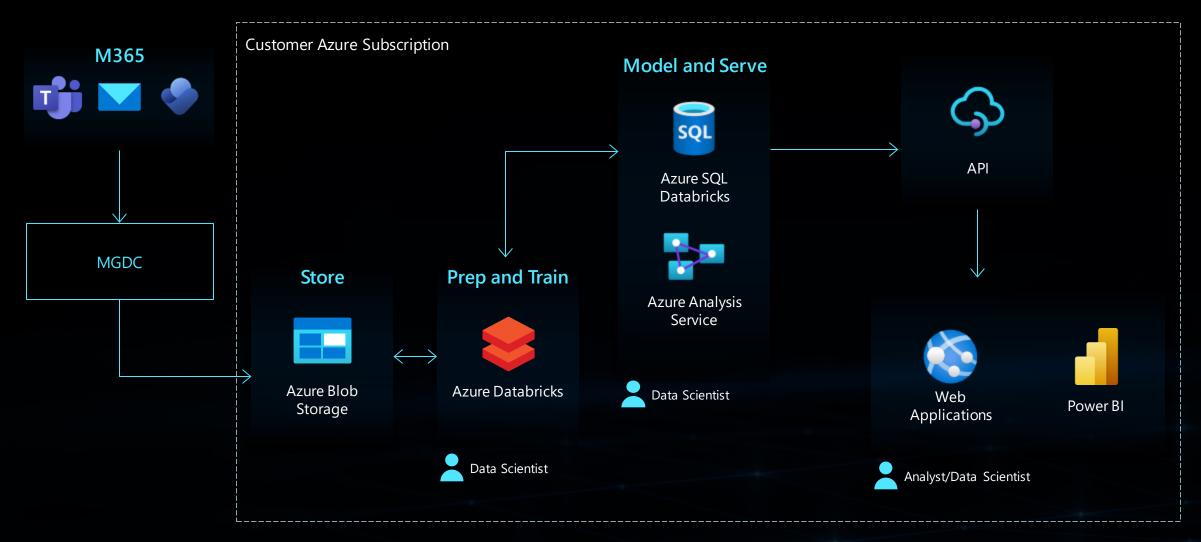
M365 data

Azure Synapse

Azure Synapse

Azure Synapse

ONA Template Architecture – Available soon





Hybrid Work Effectiveness

Enable hybrid work models and effectively balance people, technology and workplace requirements between in-person and remote



Today's Challenges



Coordinating online and in person resources

- Managers are wedged between leadership and employee expectations. Employee churn/retention is a risk
- Facilitating a safe and effective hybrid work environment

Hybrid Work Effectiveness Solution



Enable seamless,
effective
collaboration across
the org with custom
hybrid work

Gauge employee sentiment to measure engagement and inclusion

Leverage analytics and insights to build and iterate custom hybrid work environments

Establish policies
mitigate health and
safety risk with
minimal business
disruption









BENEFITS

Reduce employee churn

Grow an inclusive organization that exceeds employee expectations

Optimize custom workplace setups to address constantly changing workforce needs

Case Study: Hybrid Work Effectiveness

M365 data

Azure Synapse

Aductivity

Security

Leading US pharmacy retail provider with over 200K employees Leveraging ML to provide employees with suggestions to enhance their hybrid work environment to maximize collaboration, productivity and engagement

BUSINESS CHALLENGE

- Pharmacy provider is moving to a new hybrid work model but encounters challenges in measuring engagement and productivity
- Desire to measure employee connectivity and avoid isolation
- Desire to provide a hybrid work planning system, suggesting best collaboration location – Virtual versus in-person

SOLUTION

- Leverage collaboration signals from Outlook and Teams collaboration
- Insights into how hybrid work happens and impact to employees
- Develop ML model for prediction models
- Built a "Location Planner" tool to allow employees select collaboration locations based on highest desired outcome

RESULT

- Insights into employee collaboration, network maps and early-warning for disengagement by location
- Optimizer solution to enable employees in hybrid collaboration – Virtual or in-person
- Extension of optimizer solution to help assess real estate footprint

SOLUTION ELEMENTS



Microsoft Graph Data Connect









HR Data, VPN Webex, Slack



Azure Synapse

Microsoft Graph Data Connect and Viva Insights are better together

Enabling Viva customers to get custom insights with Azure Synapse

Viva Insights is for everyone

- ✓ Audience CHRO
- ✓ Query engine for Analysts
- ✓ "Last mile" delivery in the flow of work
- ✓ Out of the box workplace metrics and wellbeing analysis

- ✓ Continuous advancement of signals and Al
- ✓ Privacy, security, audit, compliance
 - ✓ Data-driven culture

MGDC is for data professionals

- ✓ Audience CDO
- ✓ Al, Machine Learning, and Analytics for Data Scientists
- ✓ Export M365 data into Azure Synapse
- ✓ Accelerators for data joins, modelling & analytics





Next steps ...

- Learn more about how to ingest M365 data in Azure Synapse (Link)
- Align with your business stakeholders for sponsorship, expectations and budget
- Start with business case to develop scenario/use case and supporting solution design



...how Microsoft can help you

- Request MTC Data & Al Architecture Design Session or Rapid Prototype (optional)
- Work with your DAI CSA to do a pilot/ Solution Accelerator (optional)