

Webinar

AI Readiness Tested: Your Proprietary Content is the Answer



Leslie Farinella
Content Innovation Strategist

How can AI unlock new capabilities we don't have today? What if ...

WHY do we do what we do?

Unlock the full potential in people.

Success is measured by:

- the ability to staff roles and projects with capable talent
- time to acceptable performance

So that...the enterprise thrives

In today's world, everyone learns every day, irrespective of the company's effectiveness at delivering learning.

The game-changer is when an organization can tap into that learning to benefit the learner as well as the organization.

Organizations at the highest level of learning maturity **facilitate growth for their workers.**

These organizations have significantly superior talent and business outcomes and are almost 30 times more likely to be great places to work.

*L&D has a new mission: in the flow of work –
LinkedIn Learning, August 10, 2022*

Building dynamic organizations drives exponential business growth.

Dynamic organizations **proactively anticipate** changes in the business environment and **continuously transform** at speed and scale drive exponential business, people, and innovation outcomes.

Source: Josh Bersin The Definitive Guide to Building a Dynamic Organization

DYNAMIC ORGANIZATIONS ARE:



Consider how AI can unlock
human potential

Consider the foundational
strategic capabilities we
need to support AI initiatives



We need to orchestrate learning to benefit the learner as well as the organization.

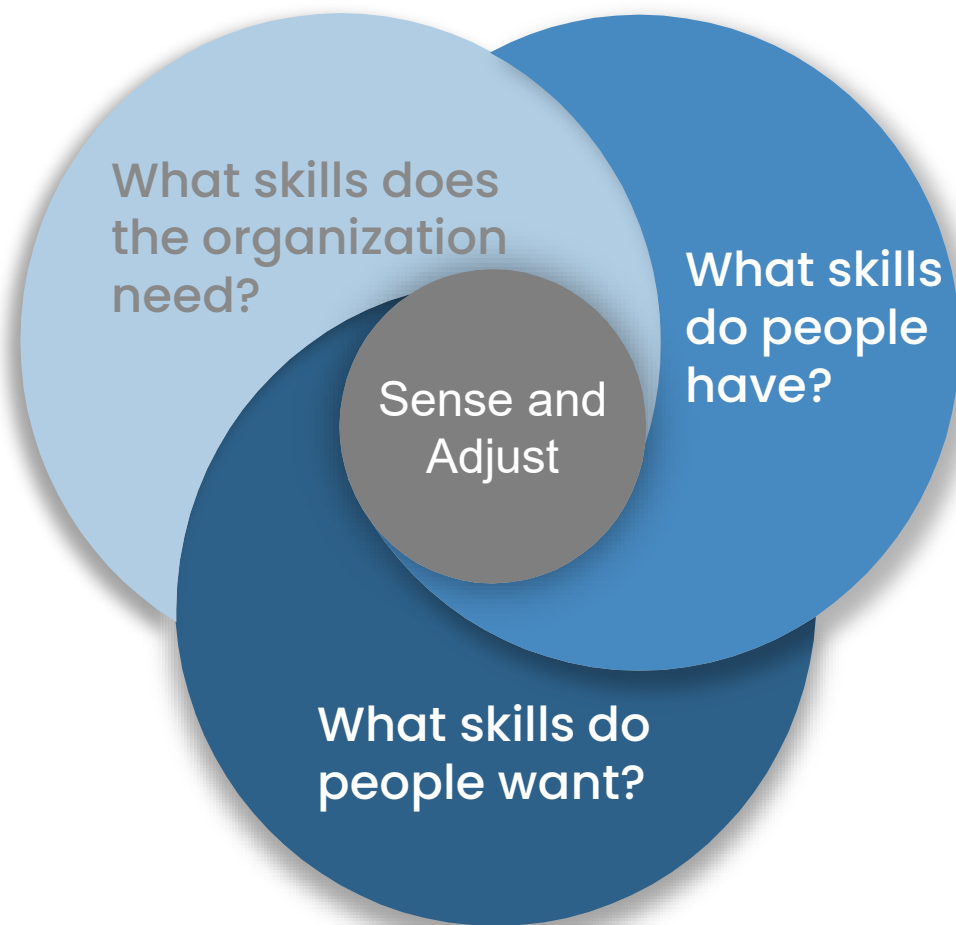
58%

of the workforce needs new skills to do their job.
(Gartner, 2021)

41%

of the workers feel they have the skills they need to thrive for the next 4 years (Deloitte, 2020)

We need to adopt a supply and demand model for skills.



Use AI to balance skills supply and demand to:

- Enable agility
- Forecast skill needs
- Orchestrate skill development
- Expose careers options & skill requirements
- Continuously nudge people towards high demand skills to drive performance

How can we apply AI, ML, LLM to solve L&D challenges? What if ...

Match People to Work

Analyze the skills people have & their career goals, and the skills organizations need and plot a path to align A to B

Prepare people for their current and next role

Match people to roles based on skills

Continuous Learning

Orchestrate hyper-personalized learning journeys

Enable learning when and where it is needed

Provide more ways to learn

Learning is a constant drip and not a faucet

Easier to Find Answers

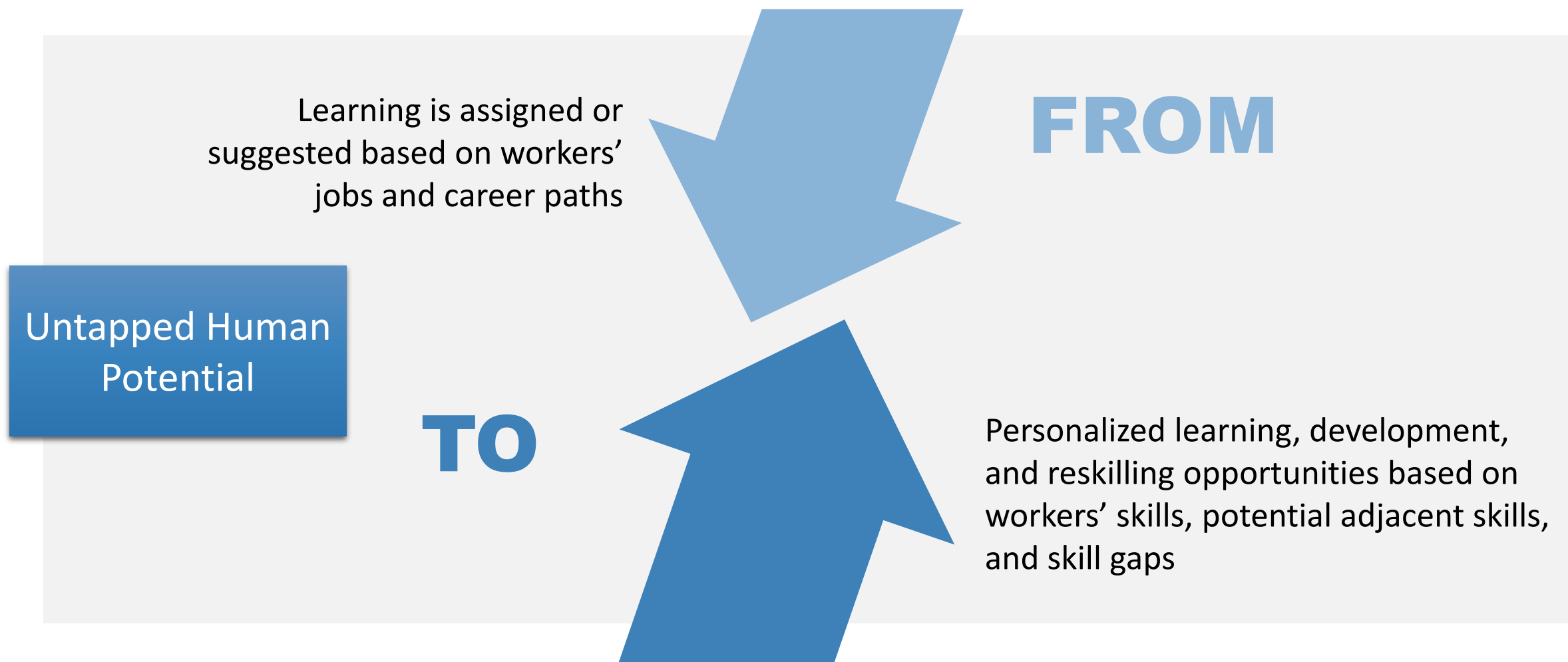
Provide the answer people need to finish a task or solve a problem

Curate, synthesize, summarize information

Anticipate needs with hints and reminders

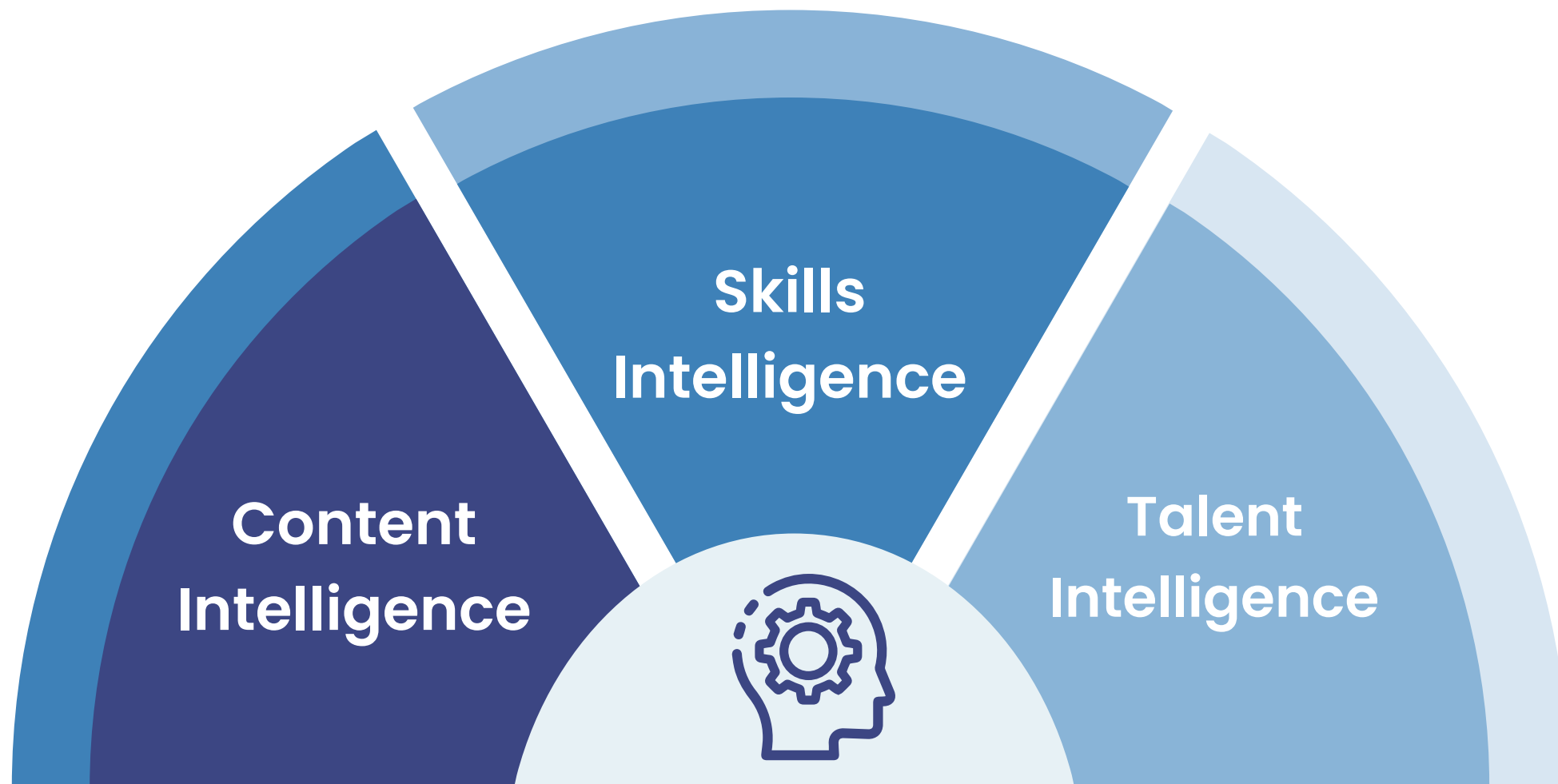


Match People to Work



Source: Deloitte Insights - Moving your organizational strategy from jobs to skills – July 2022

New Suites of AI Power Tools



Empower Continuous Learning



Source: Eightfold Talent Intelligence Website

The screenshot shows a learning management system interface for a course titled **Introduction to Management** by **Alina Martinez**. The course duration is 20 minutes. The interface features a progress map with various topics marked with checkmarks (green for completed, red for pending). Topics include: Introduction to Management, Executive Department Management Sheet, Who Are Managers?, Importance of Managers on the Marketplace, Relationship to Other Disciplines, A Global Marketplace, Developing a Clearer and Stronger Writing Style, Independent Research, What is Management and What Do Managers Do?, Entrepreneurship, Expectations of Managers, Making the Customer King, and Emphasis on Technology. At the bottom, there are buttons for **MANAGEMENT**, **SALES**, and **MARKETING**. A sidebar on the right shows a date of **11/11** and a section for **On Site Training** with a progress indicator of 4/4 and a star icon.

Source: Realizeit Adaptive Learning Website

Feed tools with your proprietary content

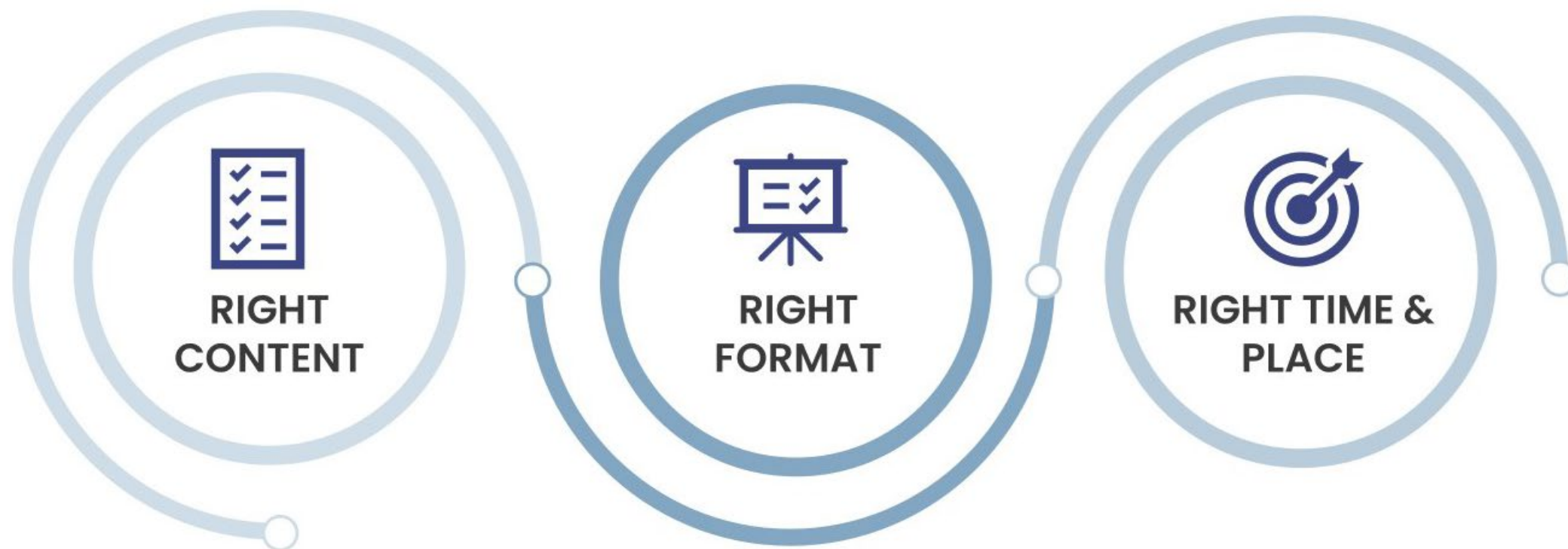


Empowering Continuous Learning

Continuous learning is:

- Data driven
- Dynamic
- Hyper-personalized
- Orchestration of many different reinforcing interventions
- Skills and proficiency based
- Continuous drip

Enabeling more orchestrated solutions



Driving better performance

5 Moments of Need

Apply	Change	Solve	New	More
Remember – Look something up	Move from what you know to something new	Encounter a problem or challenge	Acquire new knowledge	Expand current knowledge
Reduce support tickets Reduce errors & rework Time to answer = productivity	Agility Smooth transition Reduce errors, tickets	Speed to resolution Customer satisfaction Uptime	Agility Speed to proficiency Productivity	Subject Matter Expert Mentor and Support
User Guide In-App Help Documentation FAQ/Troubleshooting Guide Reference Guide / Procedure	Summary – what's changed Updated guides & docs Training Practice / Procedure Certification	Documentation Troubleshooting Guide Knowledge Article Policy or Procedure Help	Training Guided Practice Help to Apply Help to Solve	Training Certification Help to Apply Help to Solve

AI Readiness

Proprietary content is fuel for AI

Proprietary Content is Fuel for AI

Support RAG initiative (Retrieval Augmented Generation)

- extends the already powerful capabilities of LLMs to specific domains or an organization's internal knowledge base, without the need to retrain the model
- retain relevancy with latest information
- provides source attributions

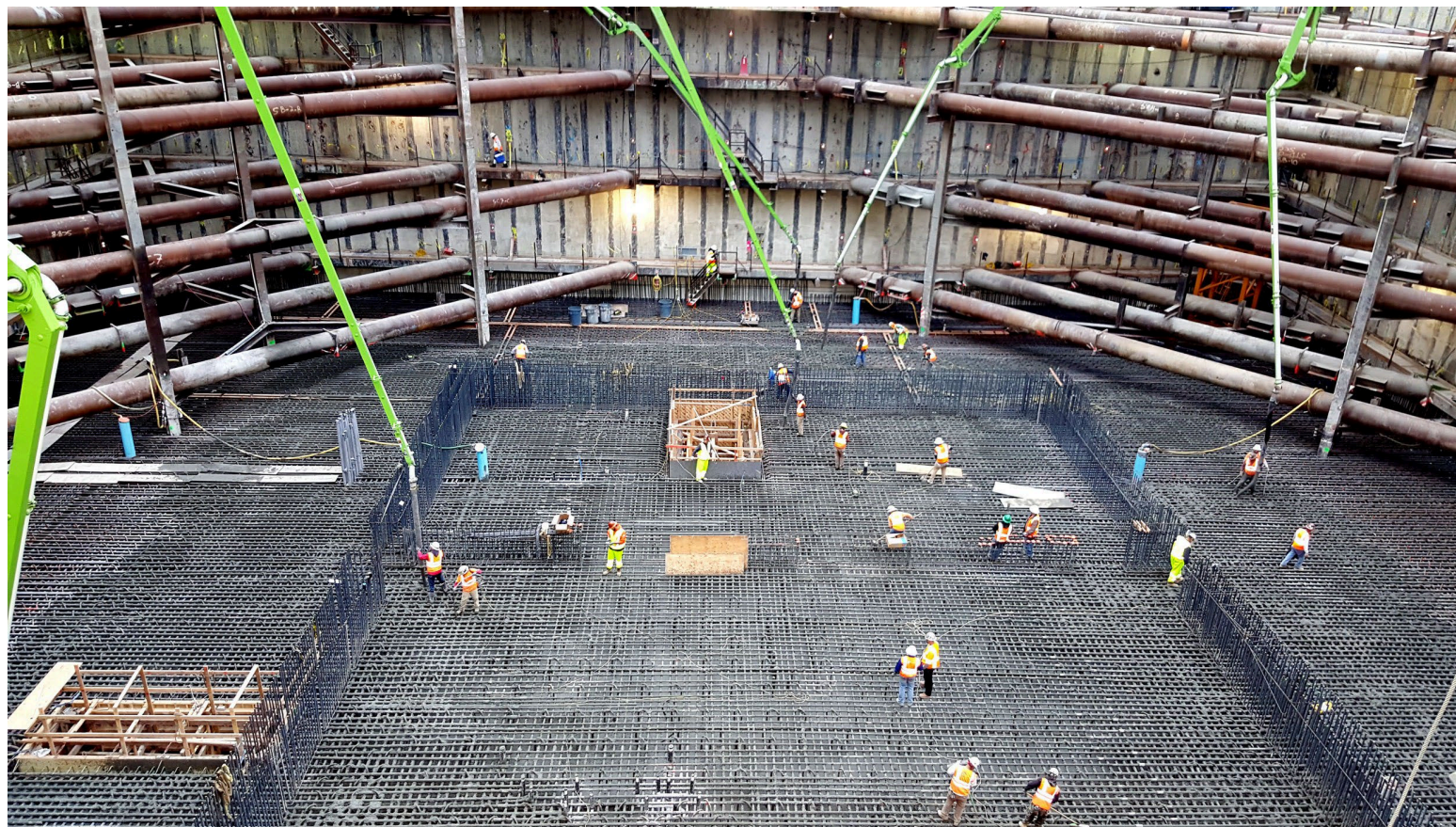
Things to consider:

- Garbage in / garbage out
- Centralized easily accessible (API driven) content repository
- Well structured and tagged content is rocket fuel for AI

AI Readiness

What strategic foundational capabilities do we need to build now to prepare for AI?

Foundations are important



Salesforce Tower, San Francisco. Source: [Wired Magazine Nov 2015](#), Boston Properties Photo

We need to build foundational capabilities that provide learners the help they need when they need it.

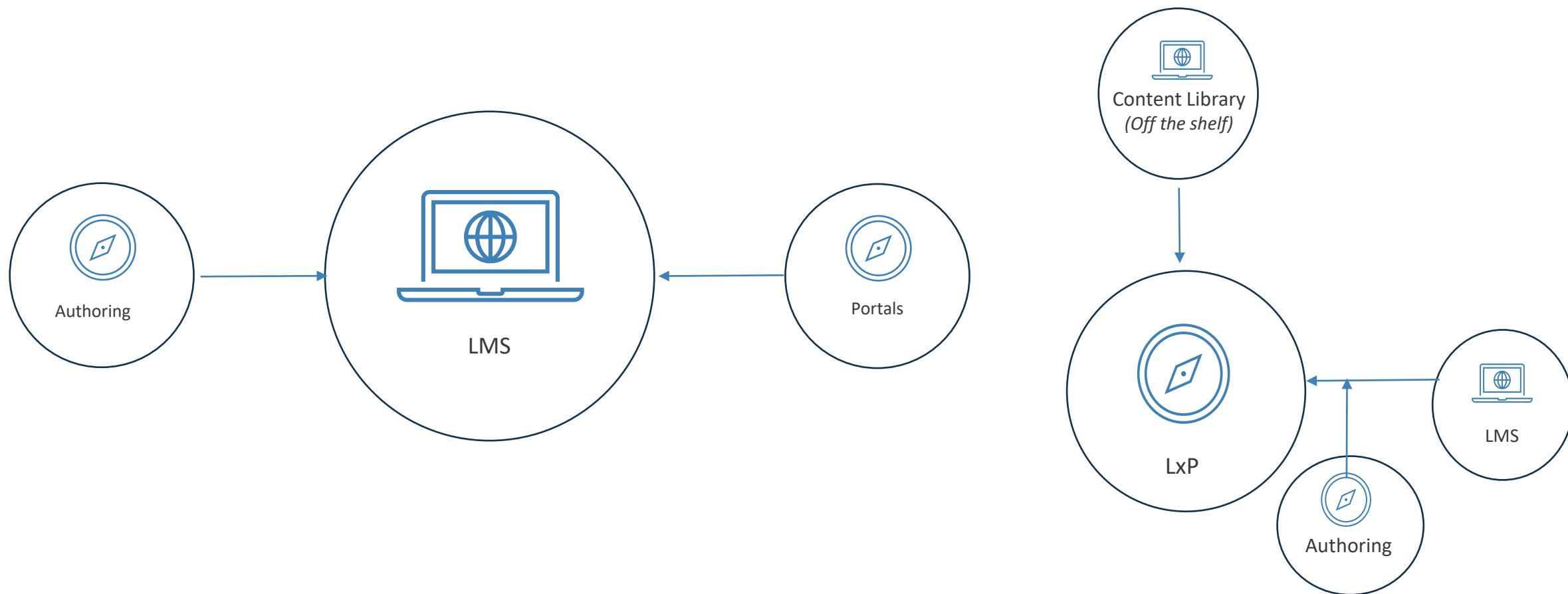
We need the capability to:

- **Create a centralized, connected, and scalable ecosystem** able to meet the specialized and changing needs of each learner group.
- **Drive dynamic experiences with smarter content.**
- **Manage the efficient flow of metadata** across systems to connect users to relevant content and learning experiences.
- **Establish a governance framework** to support modular content that can easily adapt to changing business and learner needs.
- **Use data analytics to guide actions** to fill knowledge and learner experience gaps.

Strategic Capability

Create a centralized, connected, and scalable learning ecosystem able to meet the specialized and changing needs of each learner groups

Where we are now ...



AI Solutions need proprietary content as fuel

We need to tailor technology to specialized audience needs.

Without creating:

- Silos of content and data
- Inconsistent messages
- Disconnected user experiences

The Noisy, Noisy, Learning Tech Provider Landscape

The learning tech space has always been noisy, but in 2023, it's noisier than ever. Our recent research identified:

- 426+ providers
- 35 tech functionalities
- Average of 11 learning tech systems per org

Each of the 426+ providers from our study is represented with their logo under the functionalities they indicated they provide (they may appear more than once). Functionalities are organized in columns under the learning behaviors they support.

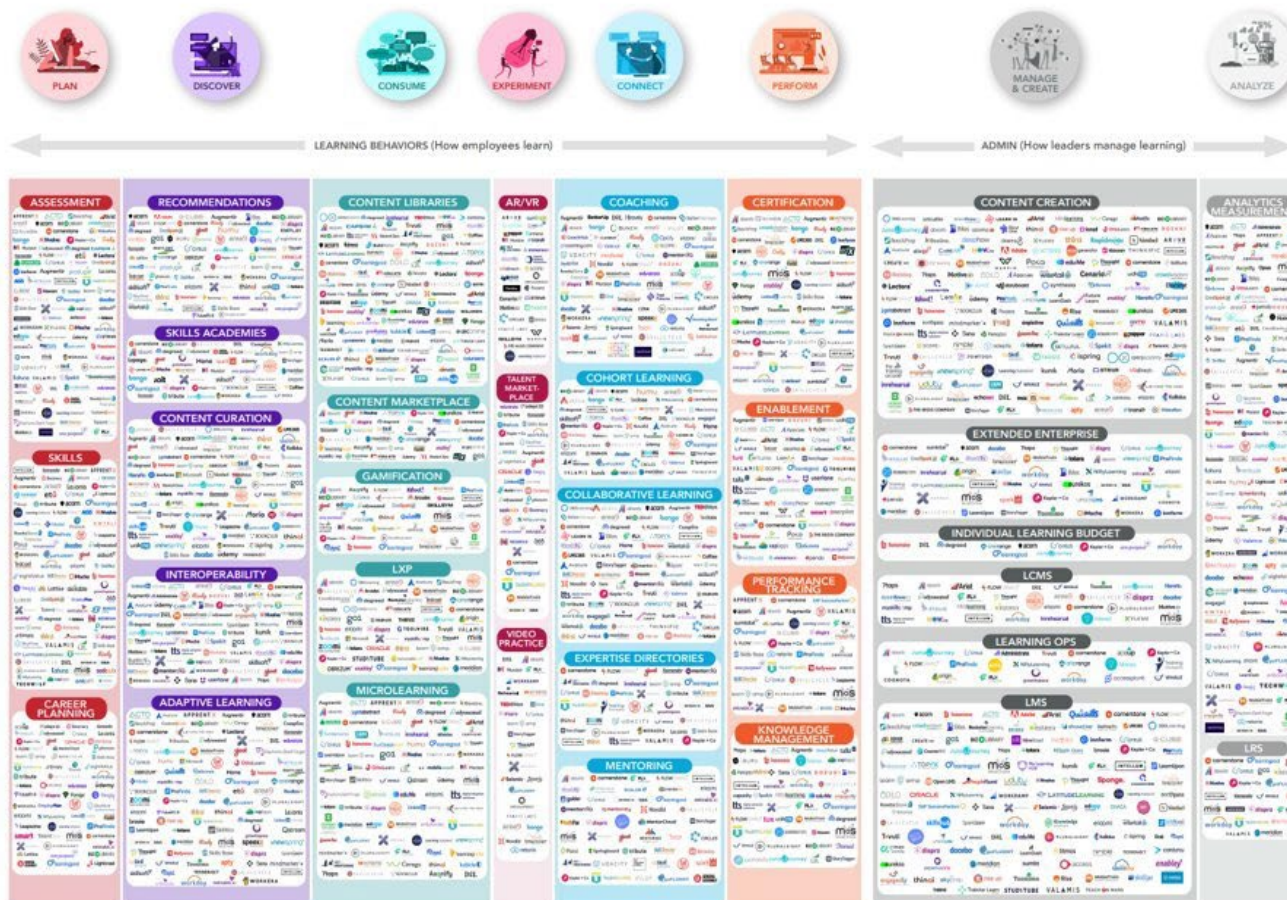
LEARN MORE
The [full report](#), discussing the current learning tech provider space, along with game-changing functionalities, is accessible for RedThread members, with its accompanying interactive [Learning Tech Provider tool](#).

Not a member? [Become one!](#)

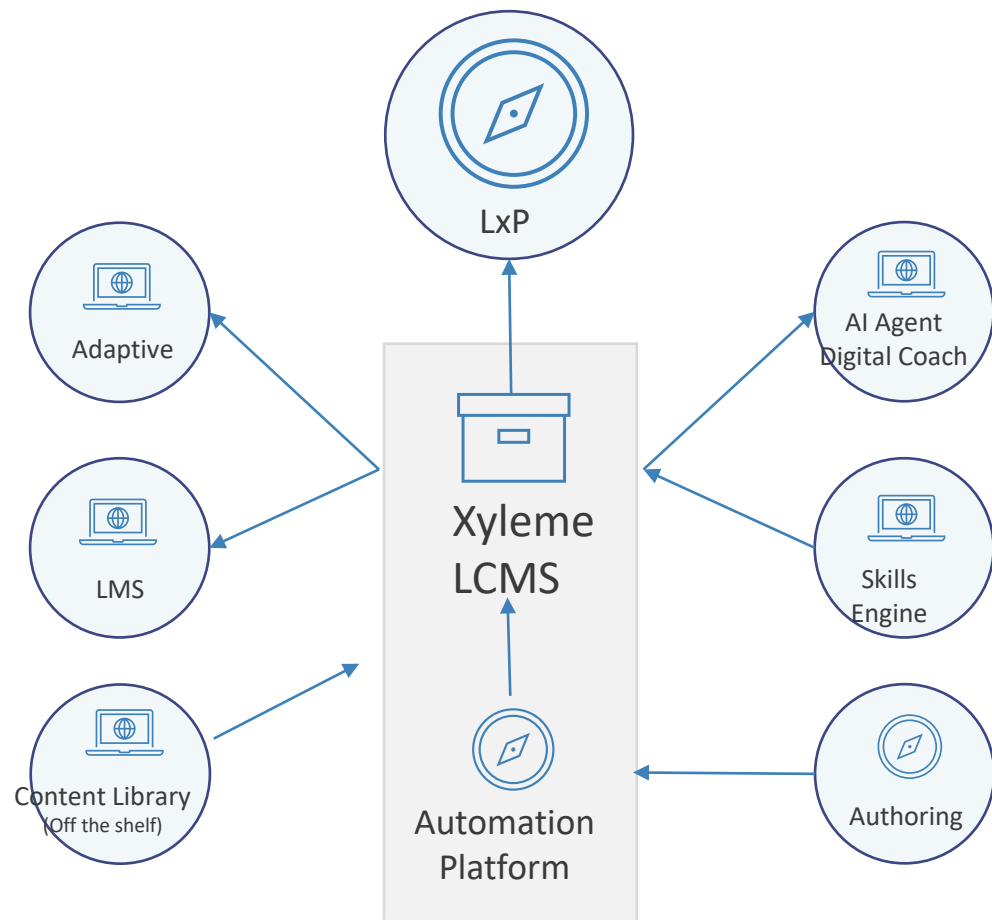
1 Learning Tech Provider Landscape - Dec 2023, RedThread Research, 2023
2 Learning Tech Ecosystems - Dec 2023, RedThread Research, 2023



© 2023 RedThread Research
All Rights Reserved



Build a plug and play architecture



- Single source truth for content
- Content can easily flow between systems
- Centralized data collection
- Robust set of APIs to support automation
- Share content metadata

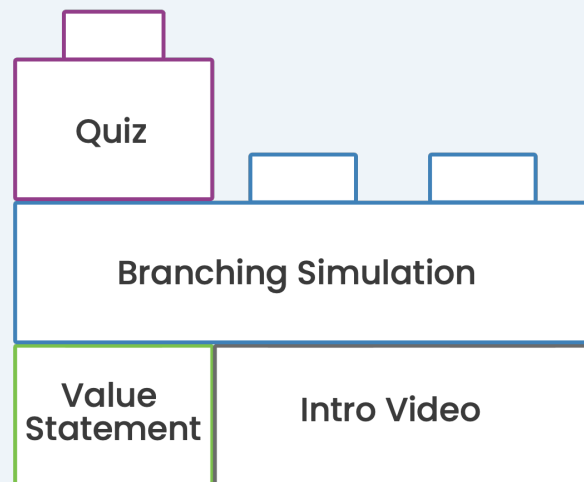
Strategic Capability

Drive dynamic experiences with
smarter content

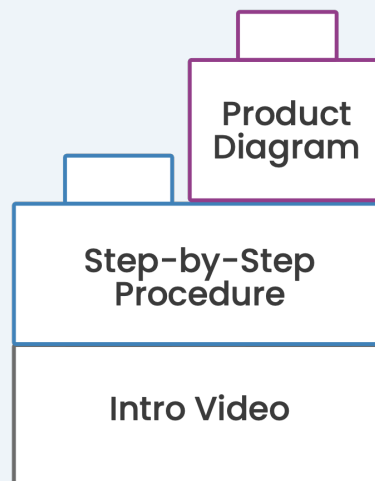
Make your content dynamic

Break content into individual components so you can **mix and match** to meet specific needs and experiences.

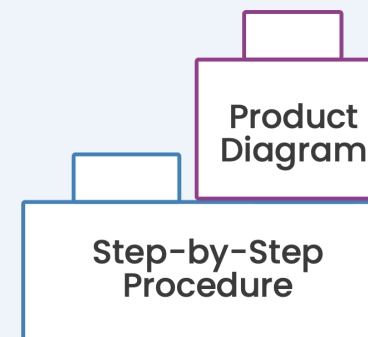
Onboarding



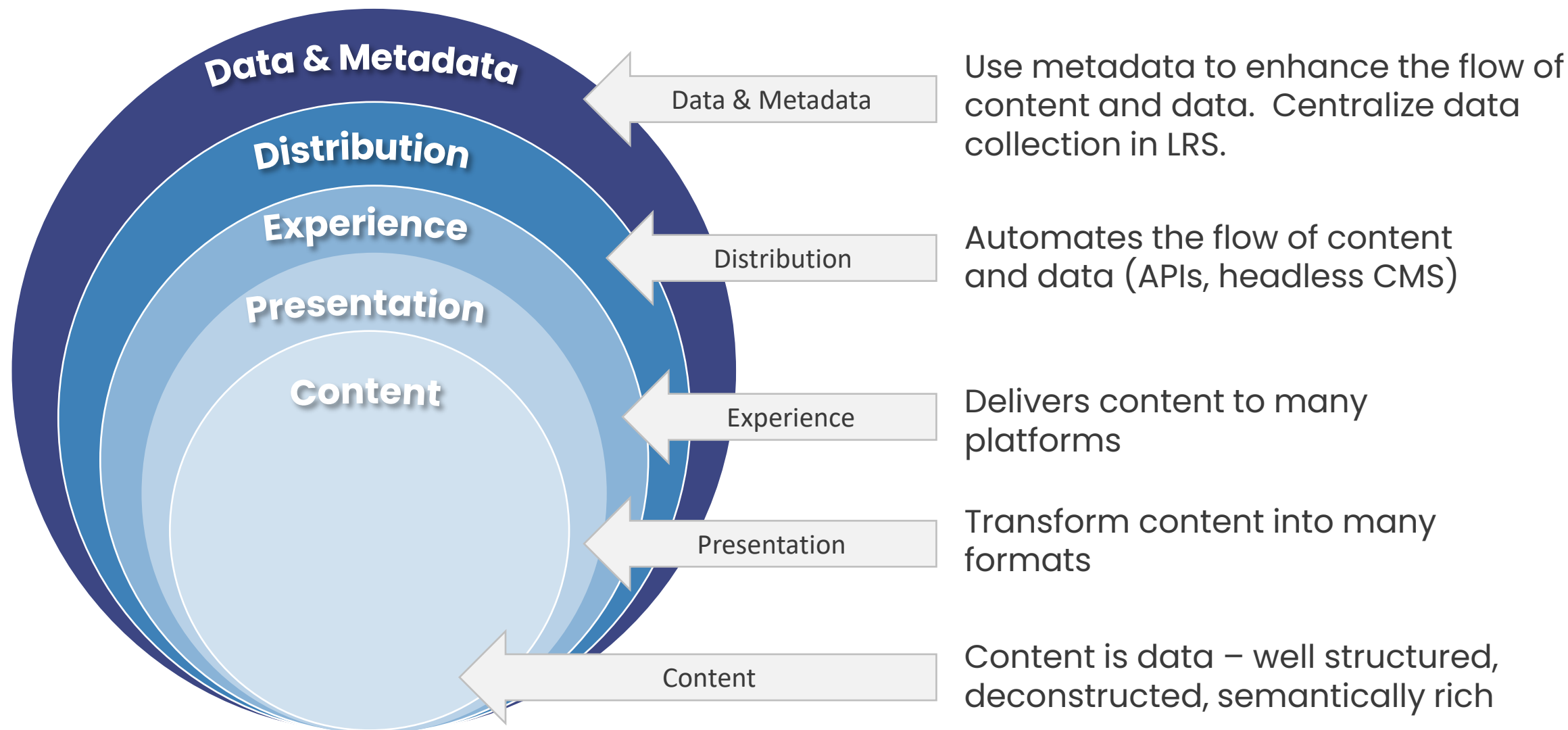
Refresher



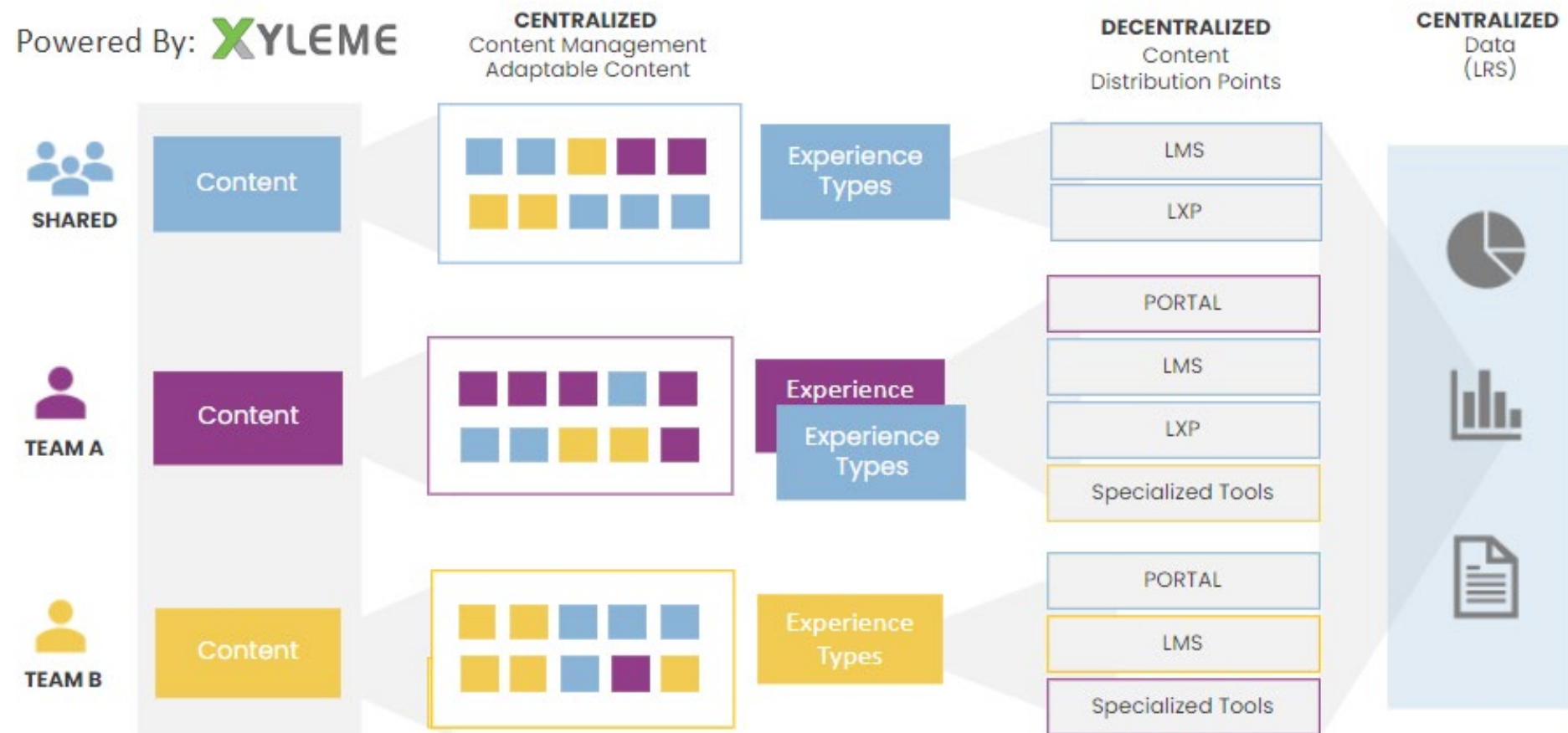
Performance support



Xyleme LCMS drives content interoperability



Xyleme LCMS provides flexibility



Well structured content is AI rocket fuel

Structured content and standardized interaction data are rocket fuel for AI.

SEMANTIC MEANINGS

Semantic meaning is baked into structured content, giving AI tools much more context when processing the content

STANDARDIZATION

Predefined schemas and standards ensure consistency across different content, reducing risk of hallucinations, and increasing interoperability with AI-powered tools

SEAMLESS INTEGRATION

Schemas and standards make interoperability much easier to achieve throughout your learning ecosystem

GRANULAR ANALYSIS

Individual semantic elements are available at a very granular level, such as paragraphs, or even individual text elements, instead of limited to "topics"

EFFICIENT PROCESSING

Structured content is inherently more machine-friendly, AI can exploit the consistency of structured content to streamline processing

DATA RELATIONSHIPS

Combine structured content with interaction data to draw meaningful insights from what your content is, and how it's performing

We need to deliver learning moments across the 5 Moments of Need

Apply	Change	Solve	New	More
Remember – look something up	Move from what you know to something new	Encounter a problem or challenge	Acquire new knowledge	Expand current knowledge
<ul style="list-style-type: none"> ✓ Reduce support tickets ✓ Reduce errors & rework ✓ Time to answer = productivity 	<ul style="list-style-type: none"> ✓ Agility ✓ Smooth transition ✓ Reduce errors, tickets 	<ul style="list-style-type: none"> ✓ Speed to resolution ✓ Customer satisfaction ✓ Uptime 	<ul style="list-style-type: none"> ✓ Agility ✓ Speed to proficiency ✓ Productivity 	<ul style="list-style-type: none"> ✓ Subject Matter Expert ✓ Mentor and Support
<ul style="list-style-type: none"> • User Guide • In-App Help • Documentation • FAQ/Troubleshooting Guide • Reference Guide / Procedure 	<ul style="list-style-type: none"> • Summary – what's changed • Updated guides & docs • Training • Practice / Procedure • Certification 	<ul style="list-style-type: none"> • Documentation • Troubleshooting Guide • Knowledge Article • Policy or Procedure • Help 	<ul style="list-style-type: none"> • Training • Guided Practice • Help to Apply • Help to Solve 	<ul style="list-style-type: none"> • Training • Certification • Help to Apply • Help to Solve

Driven by smarter content!

Smart Content is a Competitive Advantage

Content is
**tailored to
audiences**

Personalize content by
role, region, skill level,
product...

Content isn't
**trapped in a
single format**

Separate content from
presentation with
dynamic publishing

Content is
**accessible where
people need it**

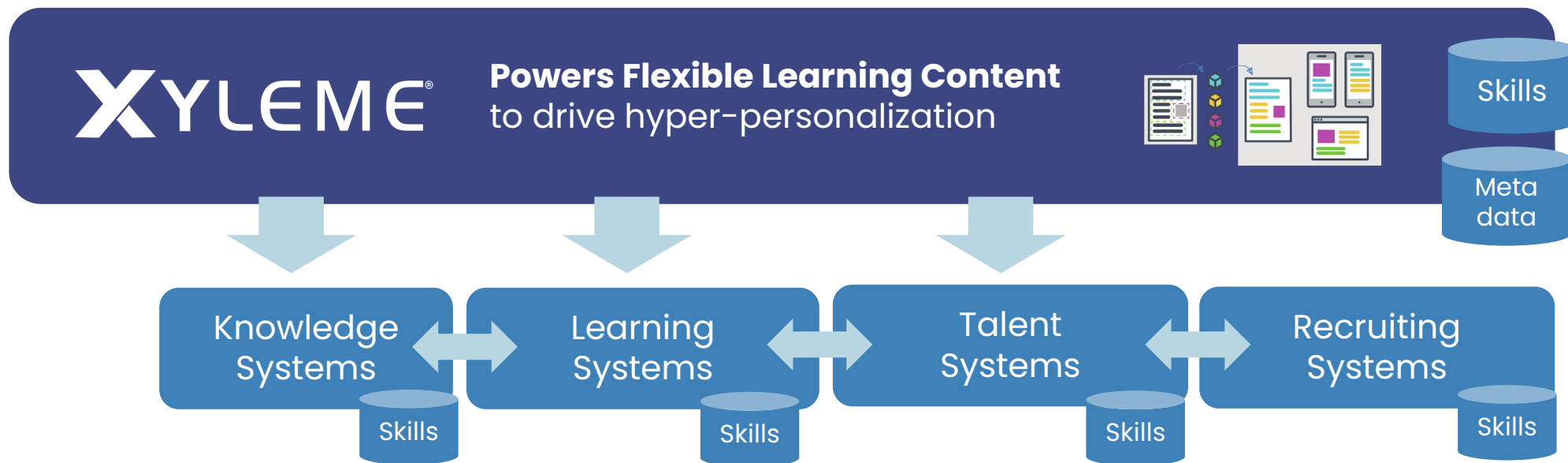
Distribute content
everywhere from a
single source

Strategic Capability

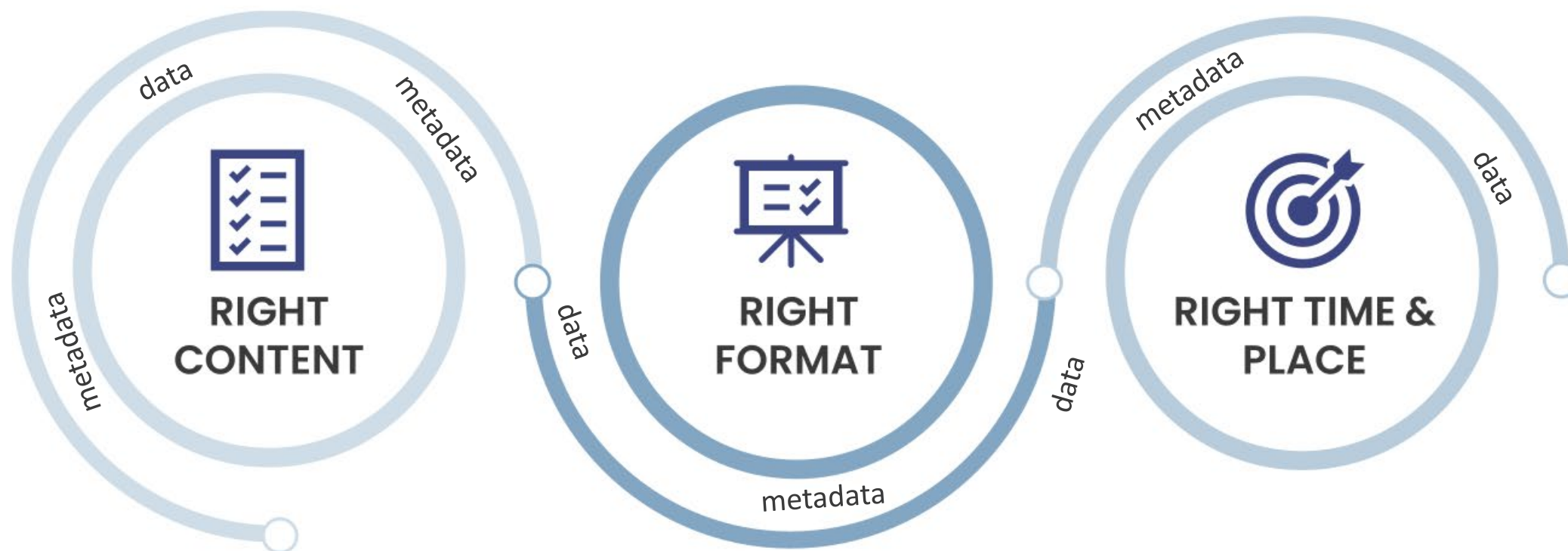
Manage the efficient flow of metadata across systems to connect users to relevant content and learning experiences.

Skills is the metadata of people

Source: Josh Bersin



Orchestrating the flow of learning



Strategic Capability

Governance: Align learning theory and design standards with business objectives

We understand the learning theory and what works

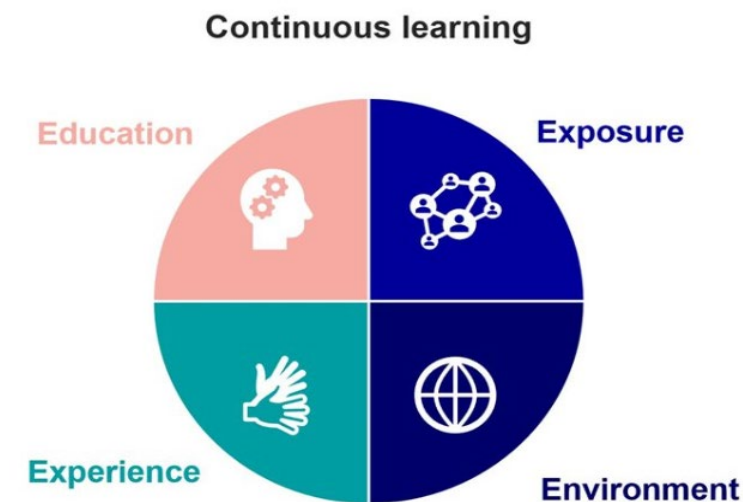
70-20-10 (OSF Ratio)

<h1 style="font-size: 2em; margin: 0;">70</h1> <p>Examples of learning by working:</p> <ul style="list-style-type: none"> • Problem solving • Challenging tasks • Other roles and responsibilities • Auditing/reviewing <ul style="list-style-type: none"> • Innovation • Reflection 	<h1 style="font-size: 2em; margin: 0;">20</h1> <p>Examples of learning by working together:</p> <ul style="list-style-type: none"> • Coaching colleagues in the workplace • Collaboration and continuous improvement • Giving and receiving feedback <ul style="list-style-type: none"> • Learning in networks • Action learning • After-action reviews
	<h1 style="font-size: 2em; margin: 0;">10</h1> <p>Examples of learning by formal intervention</p> <ul style="list-style-type: none"> • Courses • Modules • Workshops/masterclasses <ul style="list-style-type: none"> • ELearning • Seminars • Reflection

5 Moments of Need



4 Es

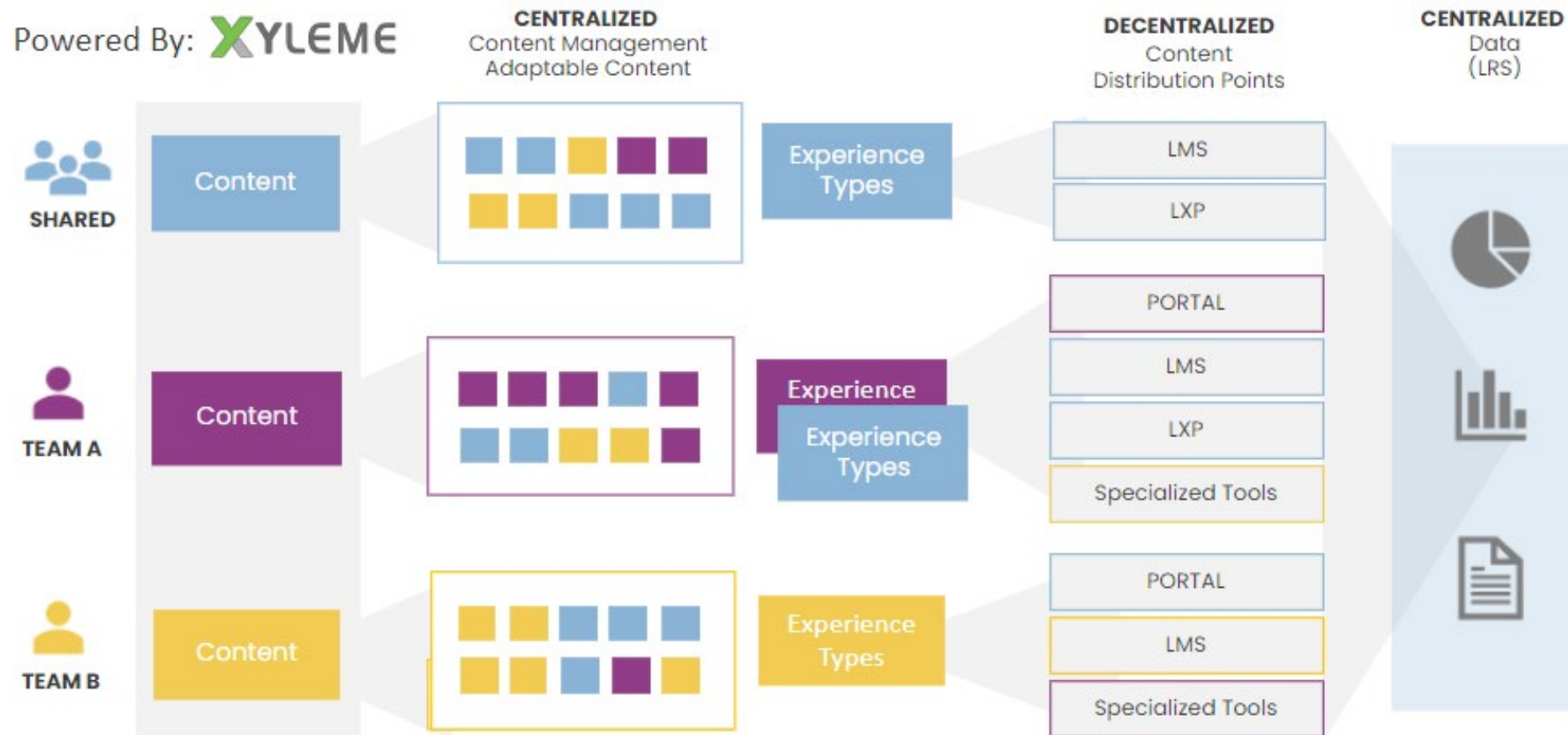


Authors: Jos Arets, Charles Jennings, Vivian Heijnen
- Co-Founders 70:20:10 Institute

Authors: Conrad A. Gottfredson and Bob Mosher

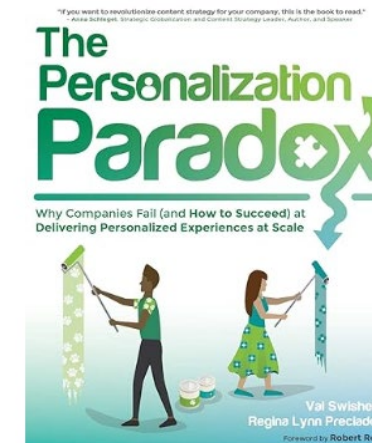
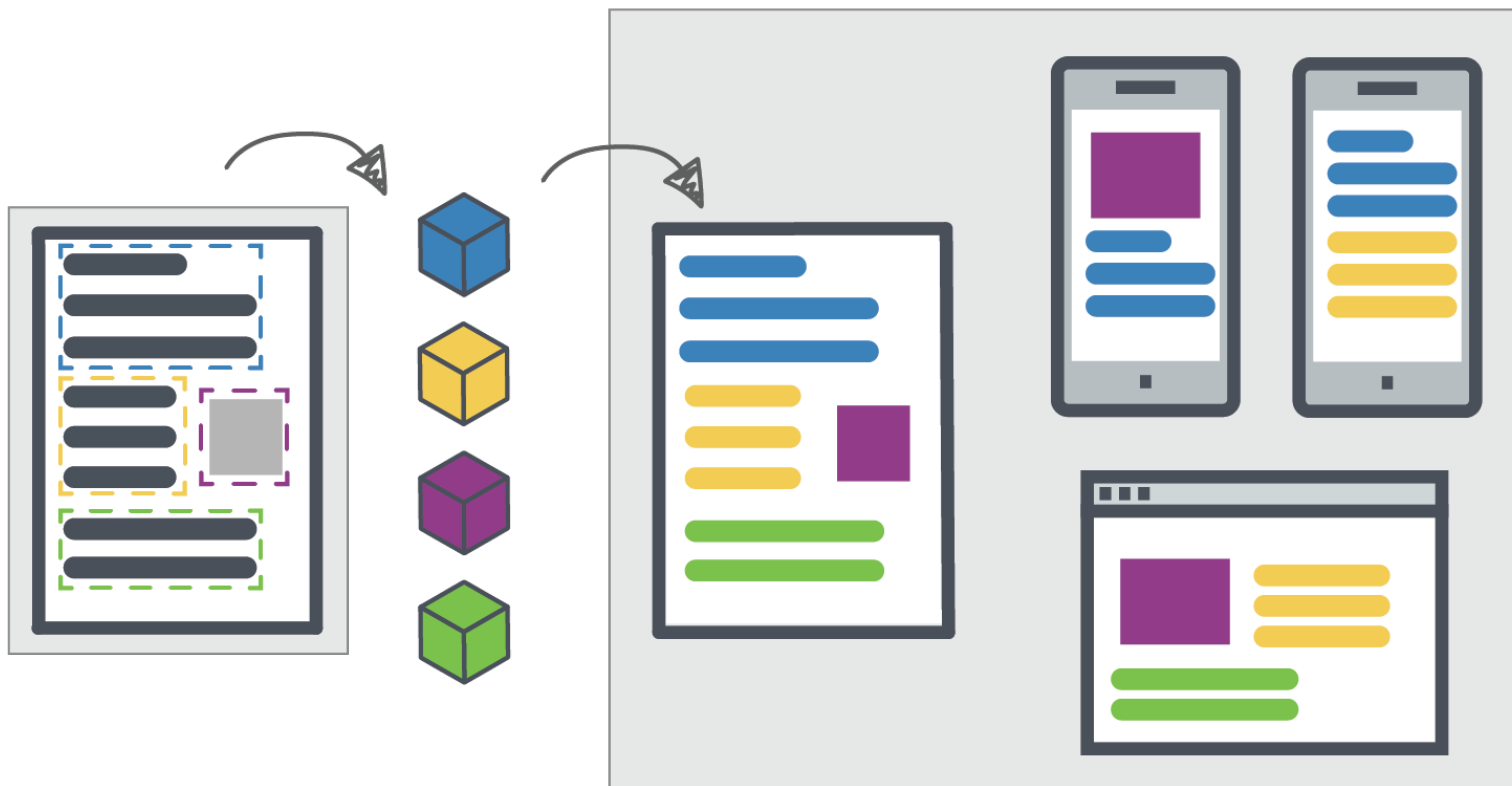
Continuous Learning (Dani Johnson Bersin by Deloitte)

Centralized content management drives flexibility

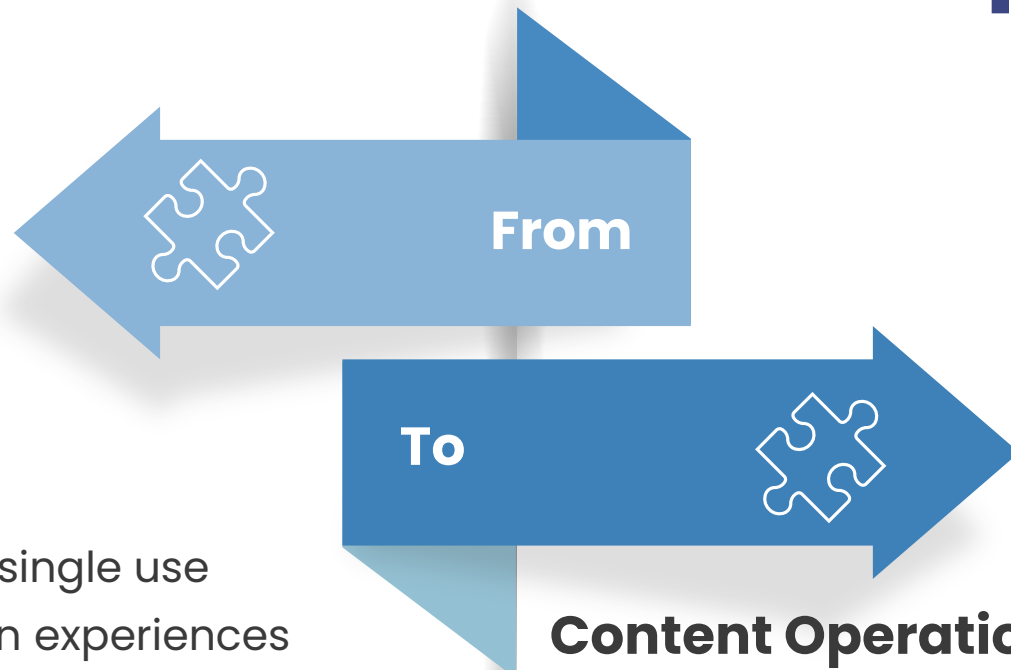


Personalization Paradox: You must standardize to personalize

Val Swisher & Regina Preciado – Content Rules



We need to upgrade our content management and content operations.



Handcrafted

- Content silos
- Content is crafted for single use
- Inconsistency between experiences
- Trapped in inflexible formats

Content Operations

- Build systems of integrated learning experiences
- Content as a body of knowledge that is fluid so it can support a wide range of experiences
- Break down silos to unify content and the experience
- Build individualized learning experiences from reusable content components

AI tooling elevates content lifecycle

AI Analysis	AI Generation		AI Curation	
Scope	Design	Develop	Distribute	Evaluate
<ul style="list-style-type: none"> • Curate related information within library • Catalog & summarize skills, tasks and concepts • Segmented content by audience 	<ul style="list-style-type: none"> • Componentize content into sections • Create outline for each Topic • Create storyboard, images, examples, sample questions • Ingest content into structured schema • Analyze duplication and reuse 	<ul style="list-style-type: none"> • Generate experiences (ILT, e-learning, support, video) • Personalize by audience • Autogenerate structured reusable content objects • Localize content for specific regions 	<ul style="list-style-type: none"> • Virtual Assistant • Natural Language Search • Auto tagging to amplify personalization engines • Use profile, business need, and skill analysis – create a personalized learning path for an individual • Dynamically assemble learning plan for delivery 	<ul style="list-style-type: none"> • Map content coverage against a set of skills • Show the utilization of content by skill • Analyze content interactions • Analyze which learning interventions have the most impact on proficiency • Identify prerequisites (skills, topics) • Manage content lifecycle – review and maintain content

Strategic Capability

Use data analytics to take action to fill knowledge and learner experience gaps.

AI and Data orchestrated learning & job performance support

The ability to extract all or parts of content, deploy that content in many different ways, and capture xAPI statements powers more agile solutions.

RICH DATA CAPTURE

xAPI allow for the capture of a wide range of learning experiences and interactions, within training and in the flow of work

ADAPTIVE LEARNING

Dynamically adjust learning paths based on learner progress and performance

DETAILED CONTEXTS

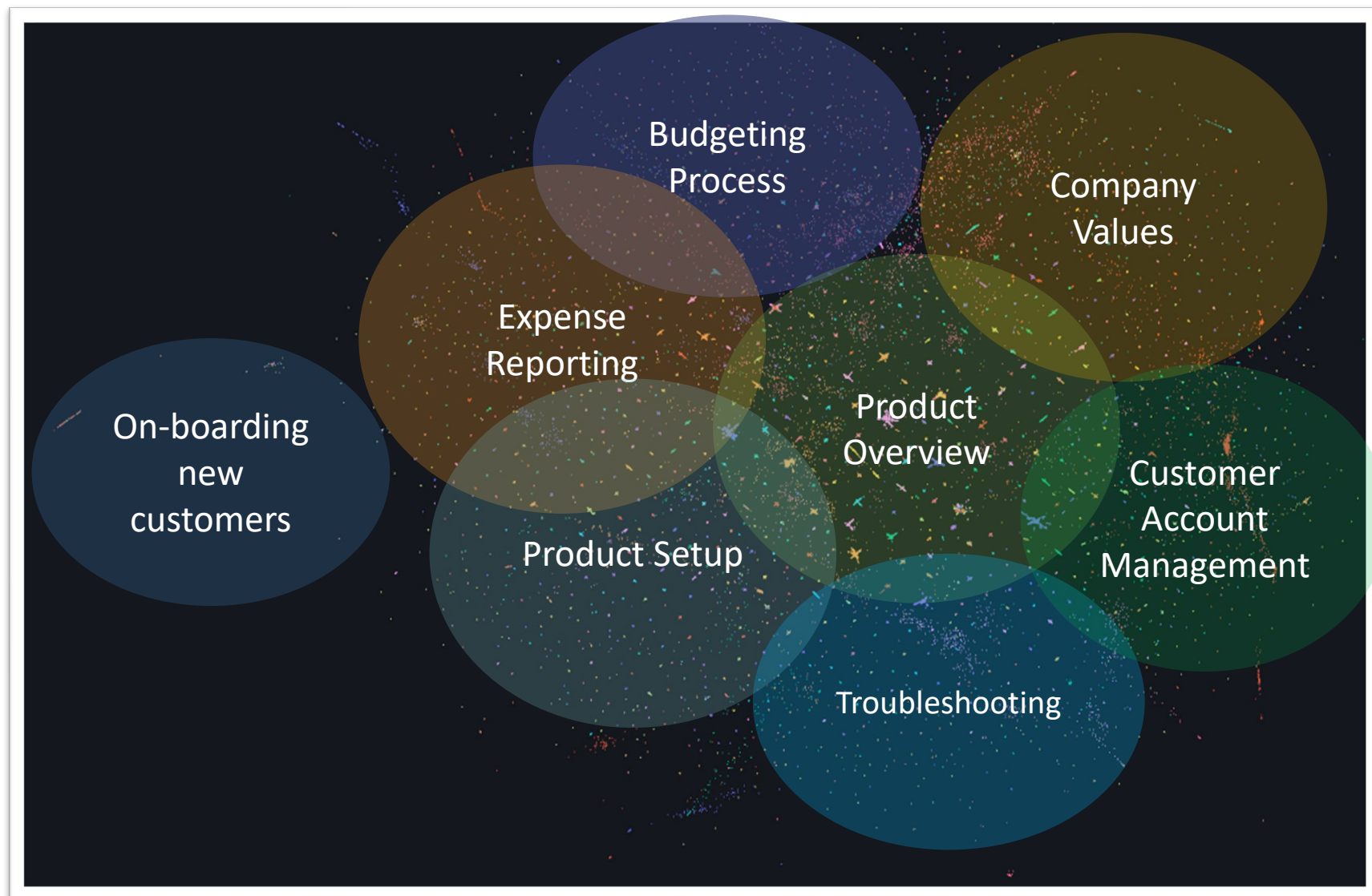
By correlate xAPI statements with specific elements of structured content, models can get a deeper understanding of relevance and significance

CONTENT ENRICHMENT

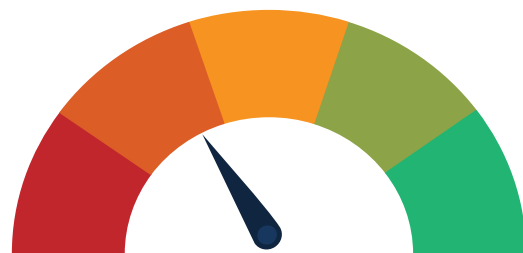
Models can analyze patterns in learner interactions and identify opportunities to augment and enhance content

Content Intelligence

- Classify and categorize content
- Identify content gaps
- Use data to set content development priorities
- Increase content utilization



Data and AI power orchestrated interventions powering business outcomes.



Business Impact

- Ability to fill open job positions internally
- % Employees ready to be promoted
- Internal mobility
- Employee retention



Effectiveness

- Time to competency
- Resources to learn on the job
- Managers who coach and develop



Learning

- Learning is relevant
- Content coverage
- Precision of learning
- Speed of development

We need to build foundational capabilities that provide learners the help they need when they need it.

We need the capability to:

- **Create a centralized, connected, and scalable learning ecosystem** able to meet the specialized and changing needs of each learner group.
- **Drive dynamic experiences with smarter content.**
- **Manage the efficient flow of metadata** across systems to connect users to relevant content and learning experiences.
- **Establish a governance framework** to support modular content that can easily adapt to changing business and learner needs.
- **Use data analytics to guide actions** to fill knowledge and learner experience gaps.



Thank You

Xyleme works with the most dynamic and innovative companies on the planet to accelerate and scale the sharing of mission critical knowledge to the enterprise.



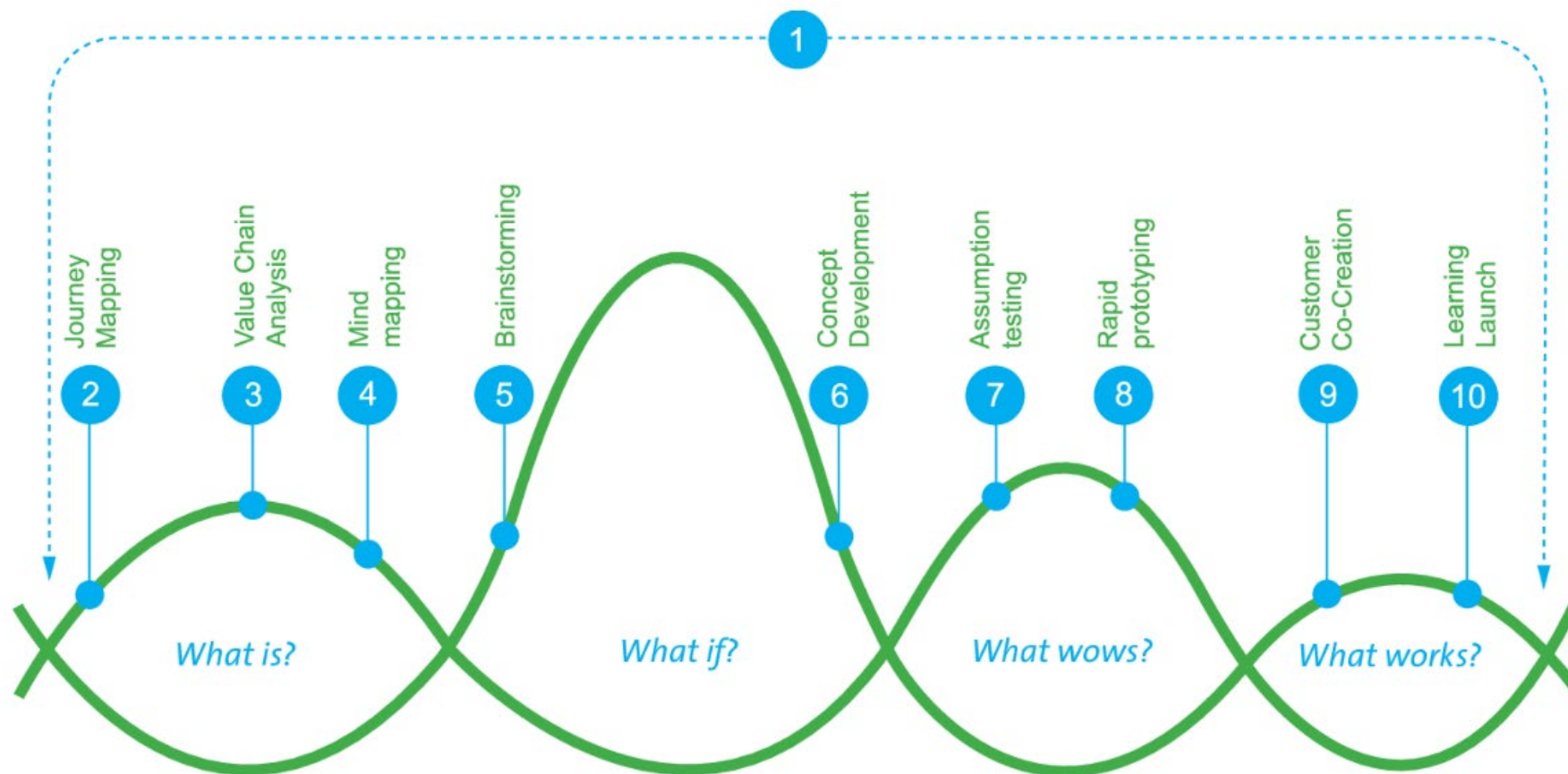
Leslie Farinella
Content Innovation
Strategist

Visit us at www.xyleme.com



Where to start

Design thinking



Designing for



a design thinking tool kit for managers

JEANNE LIEDTKA AND TIM OGILVIE

Disrupt the status quo

