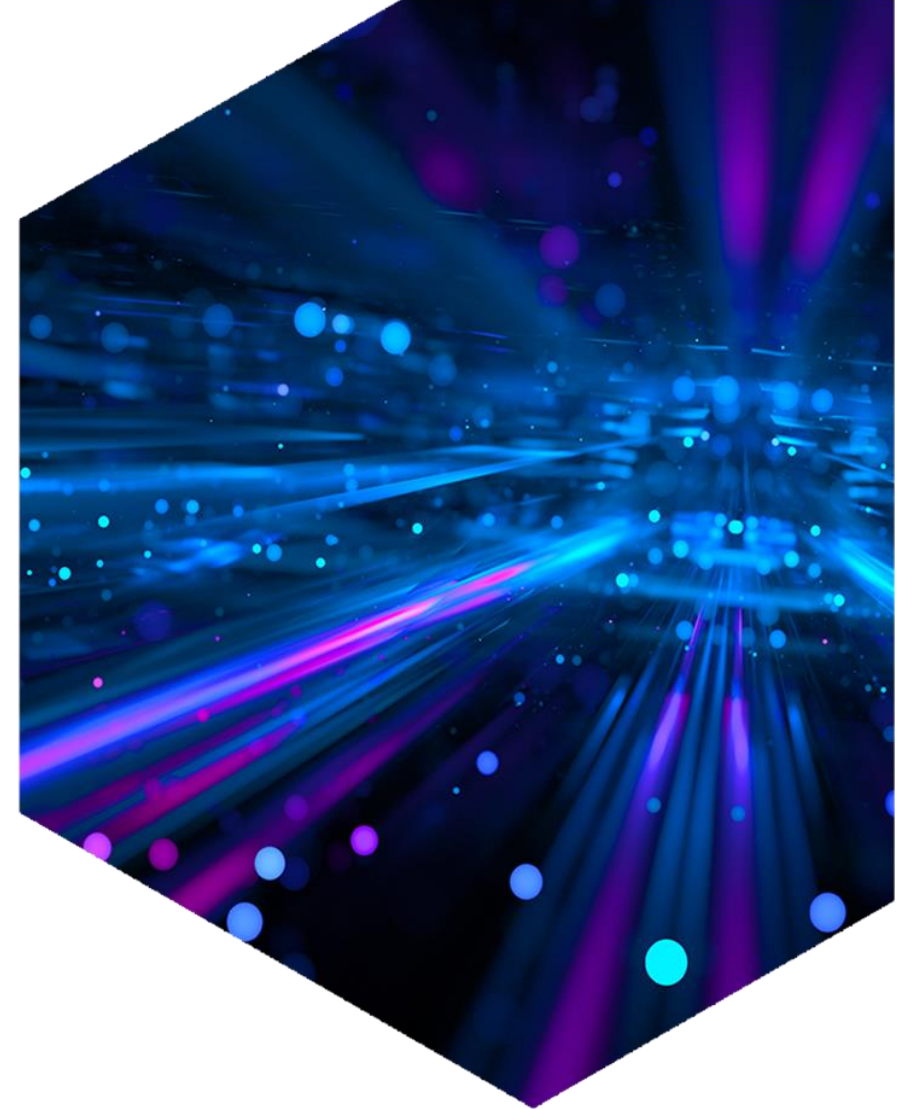


# CAS connects the world's science

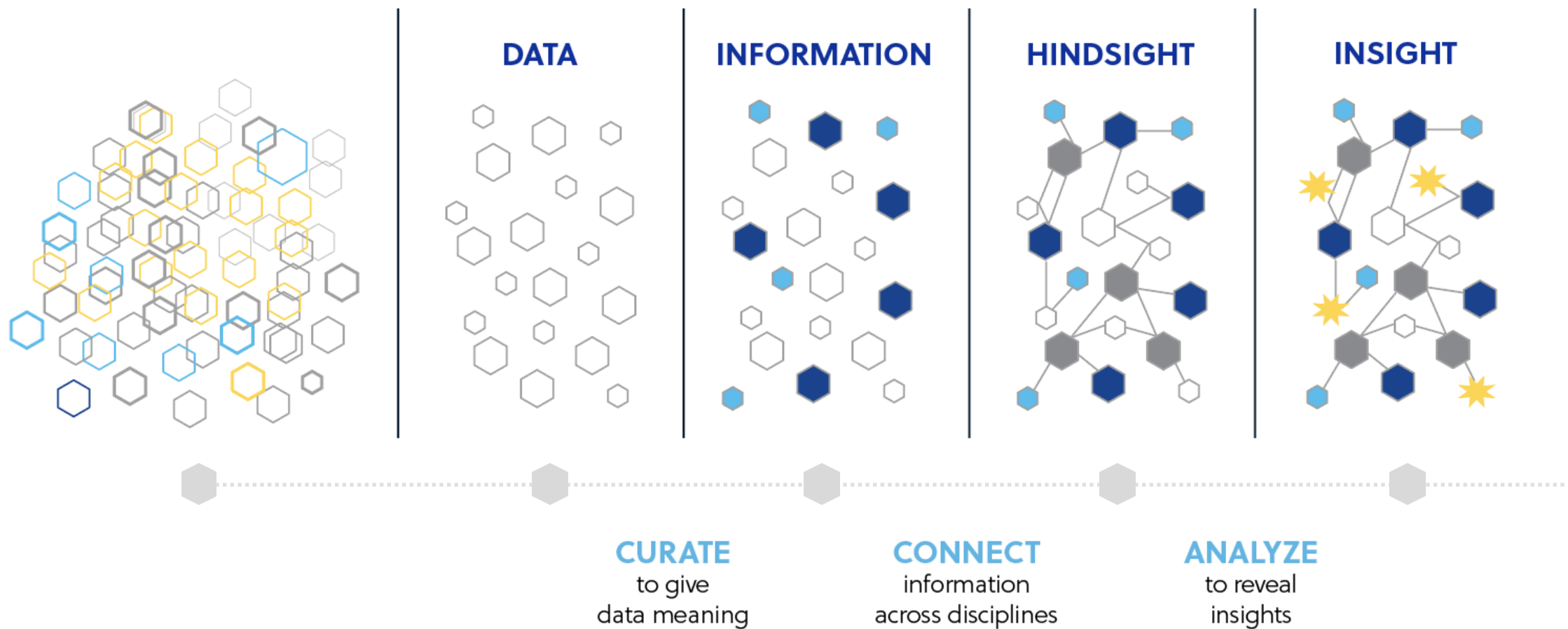
At CAS, our passion is advancing scientific progress.

We are proud to partner with innovators across industries, enabling them to maximize the power of connected scientific information to advance discovery and get solutions to market faster.

**BETWEEN PROBLEMS AND PROGRESS  
ARE CONNECTIONS THAT MATTER**



# Data is valuable only when it is transformed into insight



# Data can be both a catalyst and a barrier to innovation

Whether you're **drowning** in data or **searching** for more, you're not alone...

**95%**

of businesses need to manage their unstructured data (Forbes, 2019)

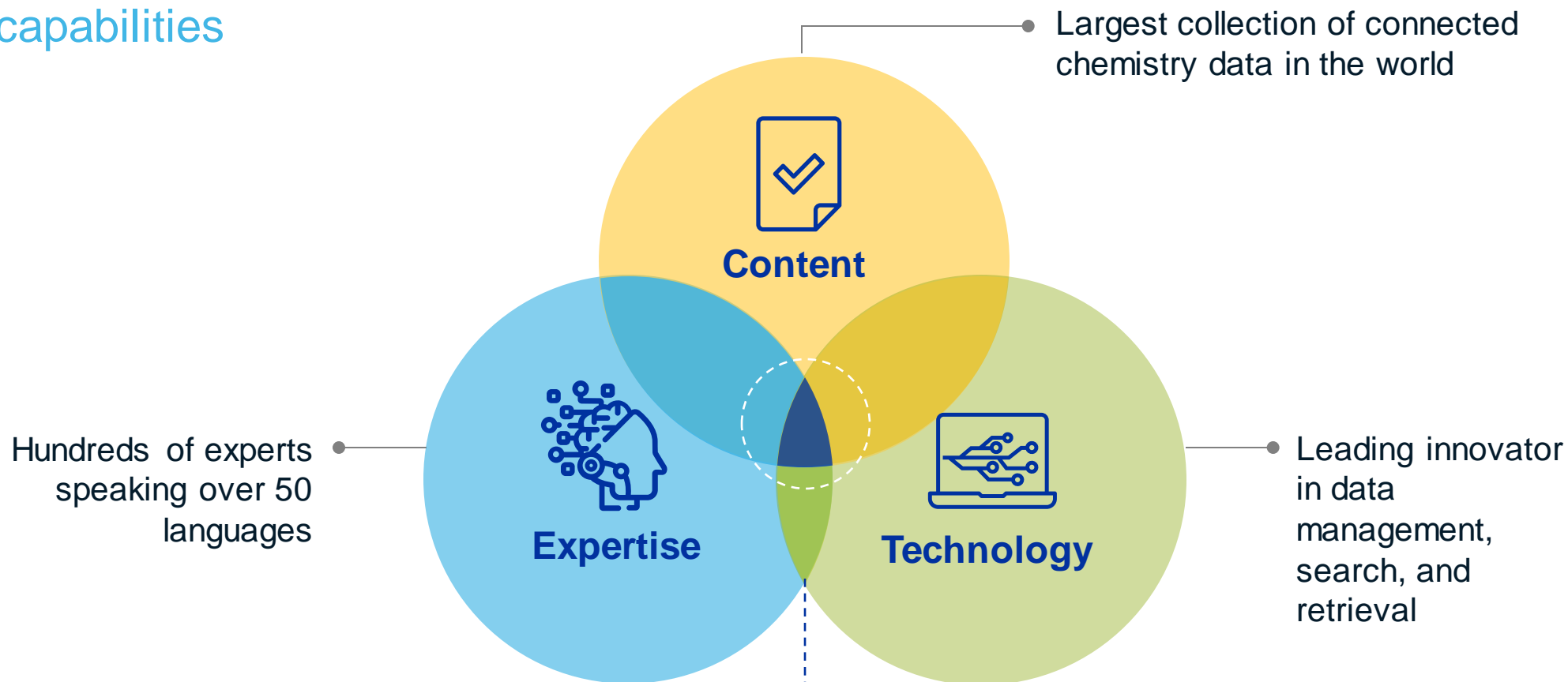
**60%**

of decision makers cite data quality as *challenging* or *very challenging* in delivering AI capabilities (Forrester, 2018)



# CAS Custom Services<sup>SM</sup>

## Our capabilities



**We transform scientific data into actionable, evidence-based insights.**

# The CAS Custom Services Approach



# Critical considerations in structuring formulations data



## Learn

Stakeholder/data consumer analysis:  
Understand WHO will be using WHAT data and HOW they will use it



## Define

Determine important attributes and their relationships: Identifying the critical data needs for stakeholder groups and how the data attributes relate to each other



## Extract

Level of granularity: Capturing data in a granular format makes it accessible for various products, services, and users



## Connect

Connecting data points: Ability to link data points between formulations and ensure accessibility to critical information



## Enhance

Enhancing published data with scientific derivations: What do we know from our corpus or reliable authority sources that can allow us to derive data – for example, functions, purposes, amounts



## Enable

Data enablement: Increase search/retrieval capabilities by enabling synonym structures for ingredients / chemical substances and terminology

# CAS Formulations data-structuring resources



## CAS Scientists

Expertise in formulations  
across market verticals



## CAS Data Governance

Resources dedicated to  
data modeling and  
structuring



## Data Steward Certification

CAS-developed program  
for all scientific and  
business data stewards