




INTERNATIONAL BUILDING PERFORMANCE & DATA INITIATIVE

BRUGG-WINDISCH, 3RD MARCH 2020



WHY COMMON DATA MODEL CDM X REAL ESTATE IBOS INITIATIVE



THE CHALLENGE.
THE REAL ESTATE MARKET IS HIGHLY FRAGMENTED.

Institutional
investors

corporates

public

private

THE CHALLENGE.

MANY PLAYERS ARE INVOLVED IN THE PROPERTY VALUE CHAIN.

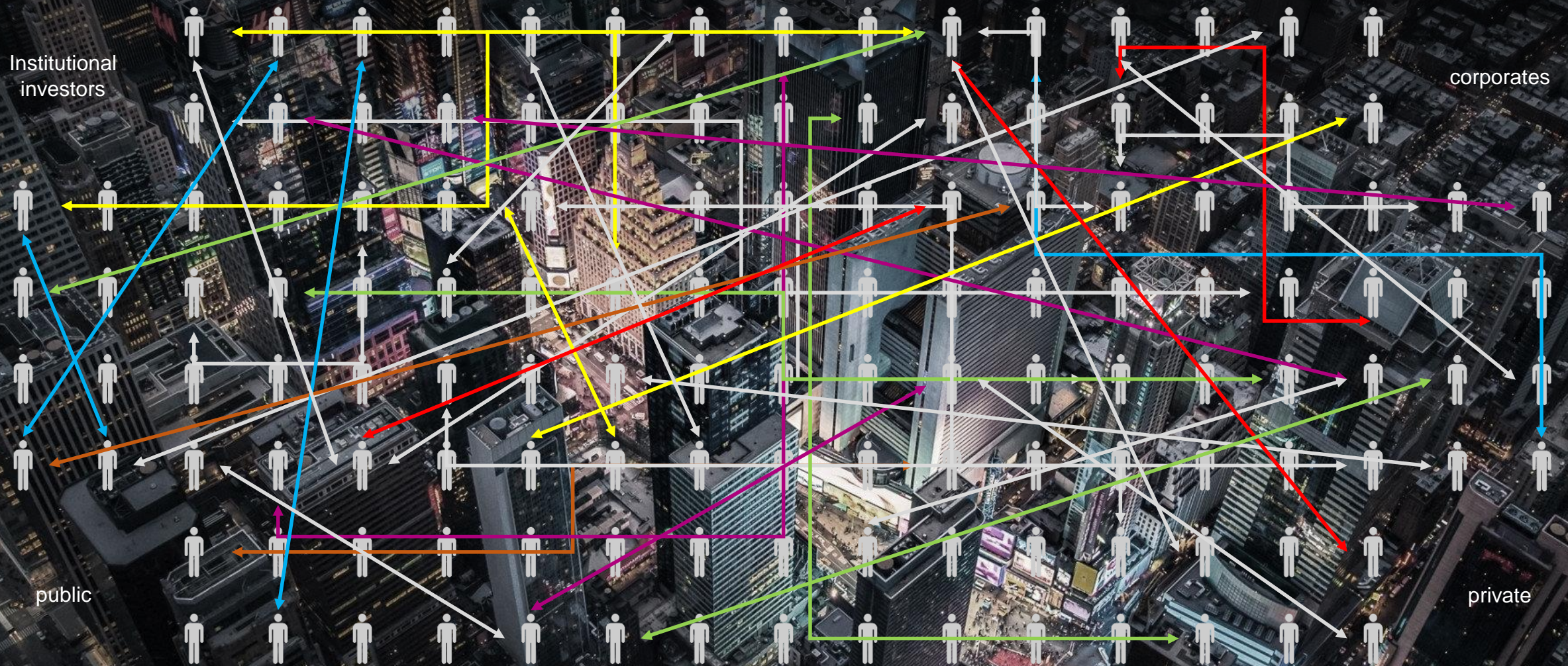
Institutional
investors

corporates

public

private

THE CONSEQUENCE. INTRANSPARENCY AND INEFFICIENCY.



“OUR ASPIRATION FOR THE REAL ESTATE INDUSTRY
IS TO SPEAK THE SAME DATA LANGUAGE.

OUR GOAL IS TO EFFECTIVELY ENABLE THE BUSINESSES IN THE
REAL ESTATE INDUSTRY TO BECOME MORE AGILE, MORE
ADAPTIVE AND TRUE MASTERMINDS OF THEIR ASSETS.”



THE TEAM.
A STRONG FOUNDATION IS SET.



THE TEAM.
THE INITIATIVE IS READY TO GROW.





...AND PLAY!



WHY COMMON DATA MODEL CDM X REAL ESTATE IBOS INITIATIVE

OPEN DATA INITIATIVE.

INITIAL POINT OF THE COMMON DATA MODEL.



Interoperability for powerful insights



Unify all business data



Combining SAP, Dynamics, Adobe



IGNITE / NOV 2018 ANNOUNCEMENT

- Initial thoughts are to deliver the ability to **integrate** CRM, **ERP**, Commerce, **Sales**, Product and others into one interoperable, single data view
- Achieving interoperability the ODI is using a **common data model** (CDM) and a common **data lake** (ADL)

IMPROVED DATA-DRIVEN AI

- The **Data Lake** is providing the format to use various intelligent apps to gather Insights
- Based on the common language the **CDM** is providing self-describing data (structurally, semantically) which increases the data understandability for applications

COMMON DATA MODEL.

DISCOVER THE VALUE IN YOUR DATA.



Create New Experiences

Marketing Intelligence

Drive powerful customer profiles through increased data breadth and standardization

Sales Intelligence

Bring structured and unstructured data together to build richer buyer profiles

Operational Intelligence*

Aggregate multi-source data to uncover true impact of the post-sales customer experience



Drive Insights and Action

Uncover new ways to optimize content delivery and campaign performance

Amplify signals from all data sources to increase accuracy of cross-sell, up-sell, and net new sales

Make data-driven product and services decisions that improve operational effectiveness



Increase Efficiency

Deliver next-best offers based on enriched knowledge of recent customer action

Expand capacity to deliver a more positive and personalized sales experience to customers

Increase customer satisfaction by improving accuracy of automated guidance



WHY COMMON DATA MODEL CDM X REAL ESTATE IBOS INITIATIVE

UNLOCKING THE POTENTIAL OF DATA. BY BREAKING THE DATA SILOS.

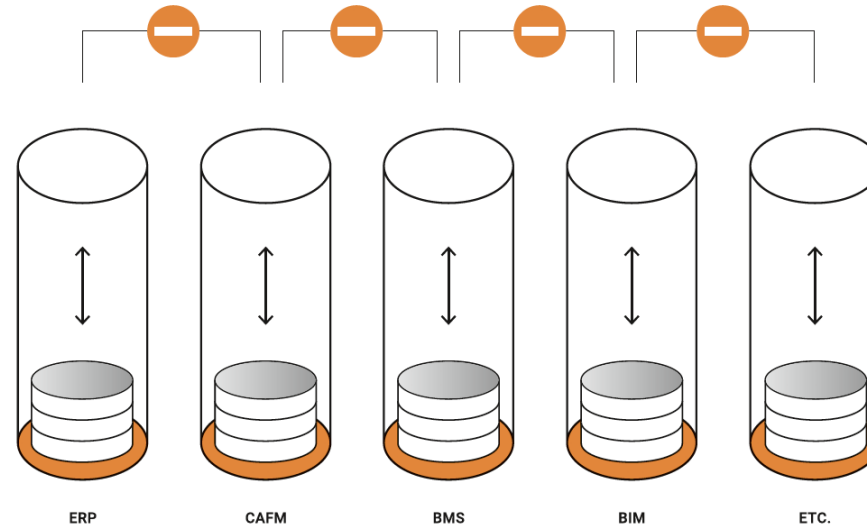
SILOED DATA

A COMPLEX SYSTEM
LANDSCAPE

FLUCTUATING STAKEHOLDER
LANDSCAPE

LIMITED ACCESS FOR
STAKEHOLDERS

LACK OF DEMOCRATIZATION



- Limited access
- Low comparability
- Quality issues

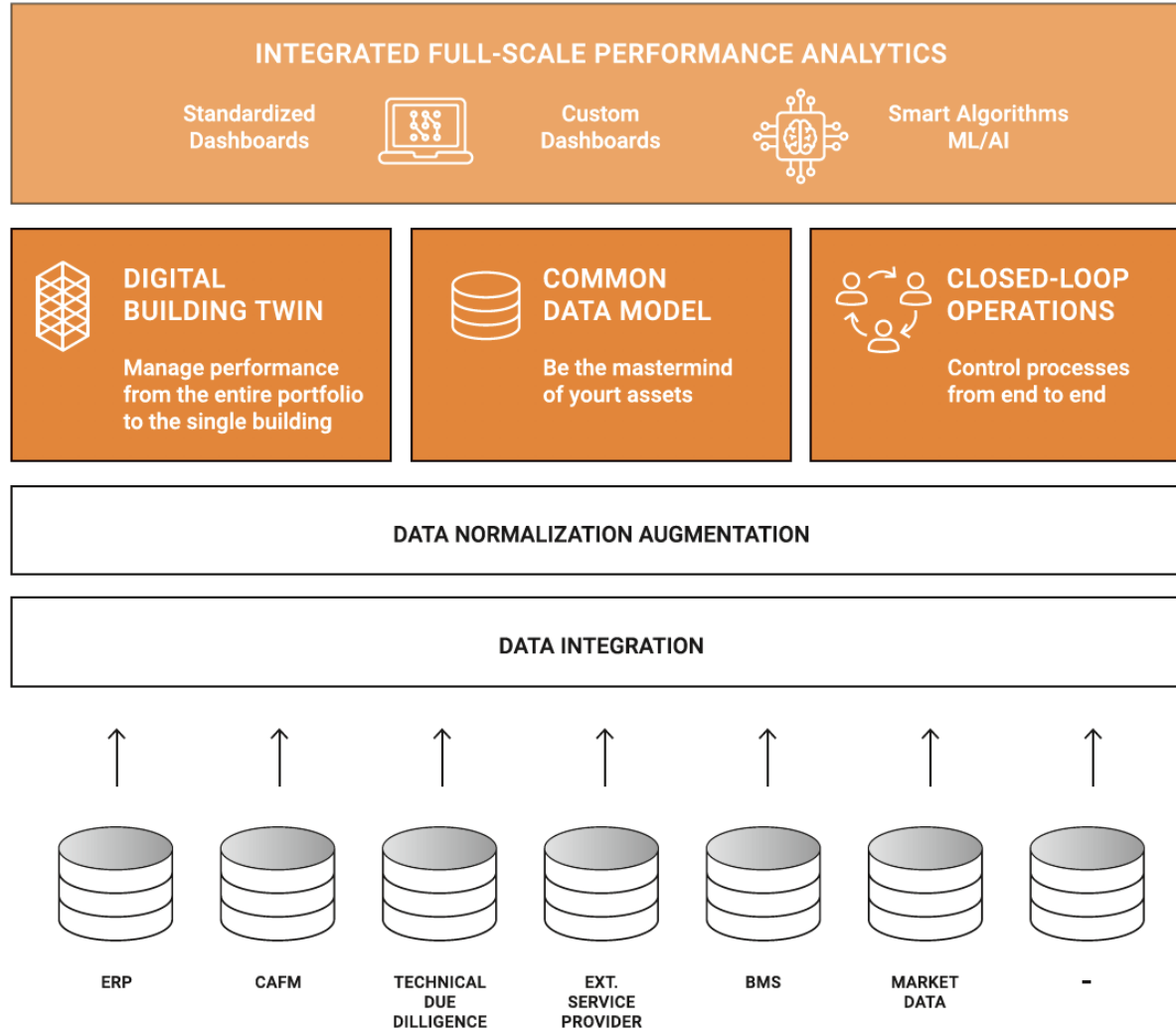
- Increased failure rates
- Data governance issues

- Data loss
- Lack of actuality

- Fact- and data-based decision making merely impossible

- Preventing the usage of ML and AI and therefore advanced analytics

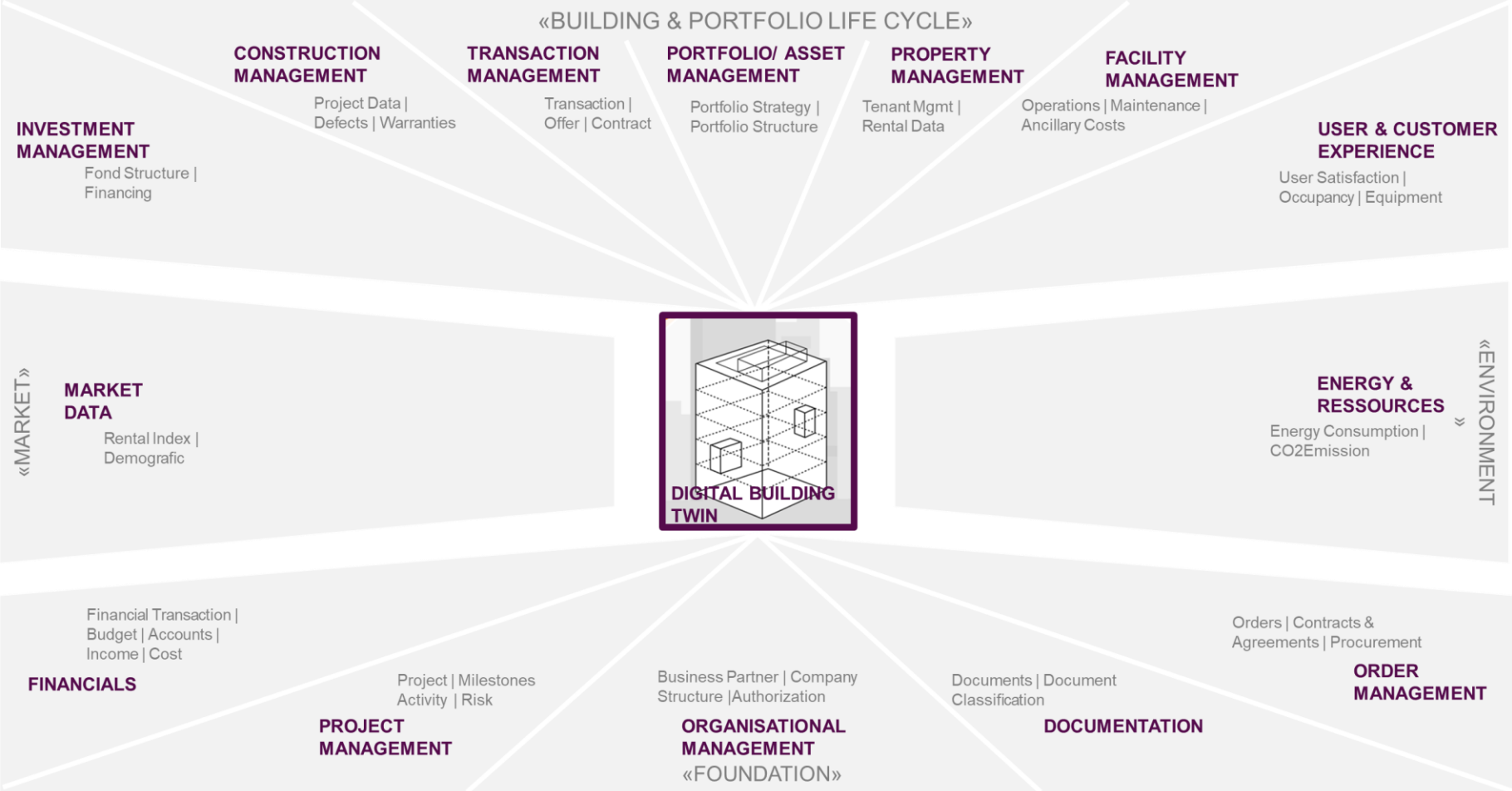
LIFTING THE DATA TREASURE. WITH AN INTEGRATED PLATFORM.



- Leveraging the power of Microsoft technology
 - A one-stop real estate asset optimization platform
 - A unique combination of an integrated cloud platform, a digital building twin and data-driven insights
-
- Effectively combining sustainability, people satisfaction and profitability goals
 - Providing information from a holistic, birds-eye view of the portfolio to grassroots, granular building focus
 - Offering unprecedented insights, transparency and just-in-time information
 - Providing the right information to all stakeholders across the entire ecosystem

COMMON DATA MODEL FOR REAL ESTATE. STRUCTURE.

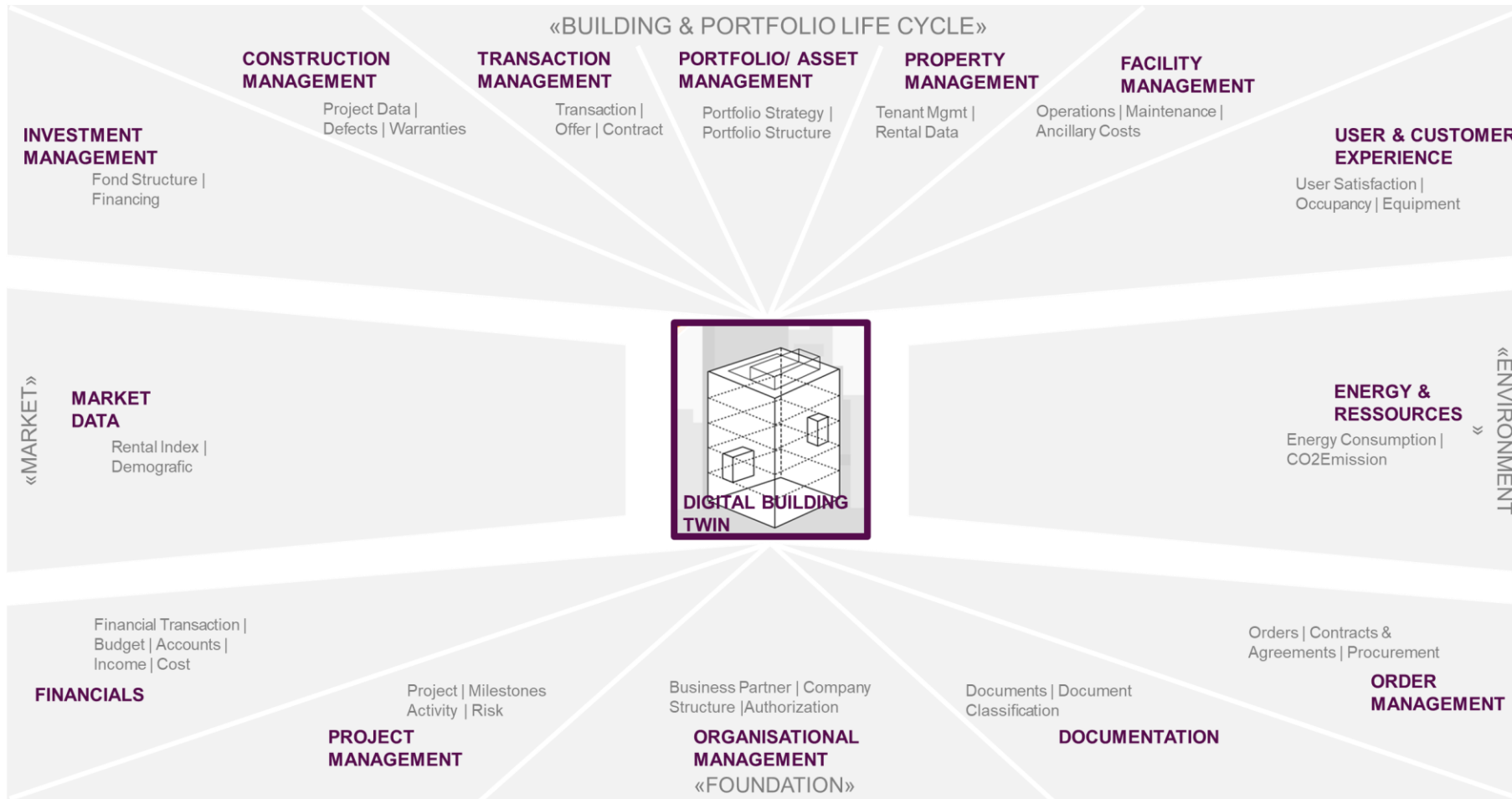
COMMON DATA MODEL FOR REAL ESTATE



COMMON DATA MODEL FOR REAL ESTATE.

IBOS AND CDM - DRIVING BUILDING PERFORMANCE.

COMMON DATA MODEL FOR REAL ESTATE



KPIs DESCRIBING BUILDING PERFORMANCE (RESULT IBOS)

COMPLIANT

FUNCTIONAL

ECONOMIC

PRODUCTIVE

STIMULATING



Seamless collaboration

between all stakeholders
improving process efficiency
and effectiveness



Intelligent portfolio insights

based on Machine Learning
and Artificial Intelligence



A single source of truth

being the backbone for
data governance, data quality
and compliance




New applications

enabling advanced
services and a best-in-
class customer experience



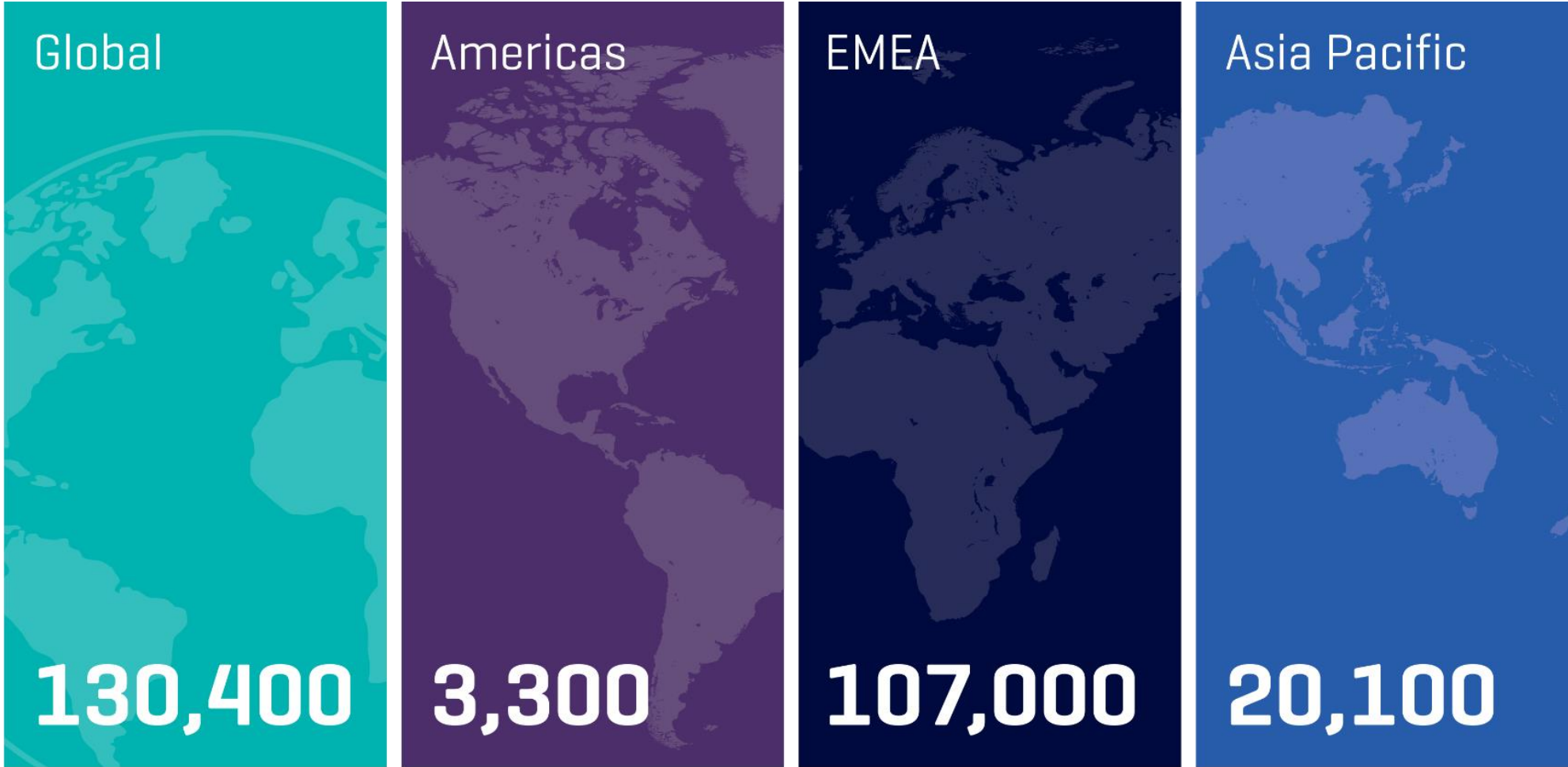
Unified data

as innovation
and business model
accelerator



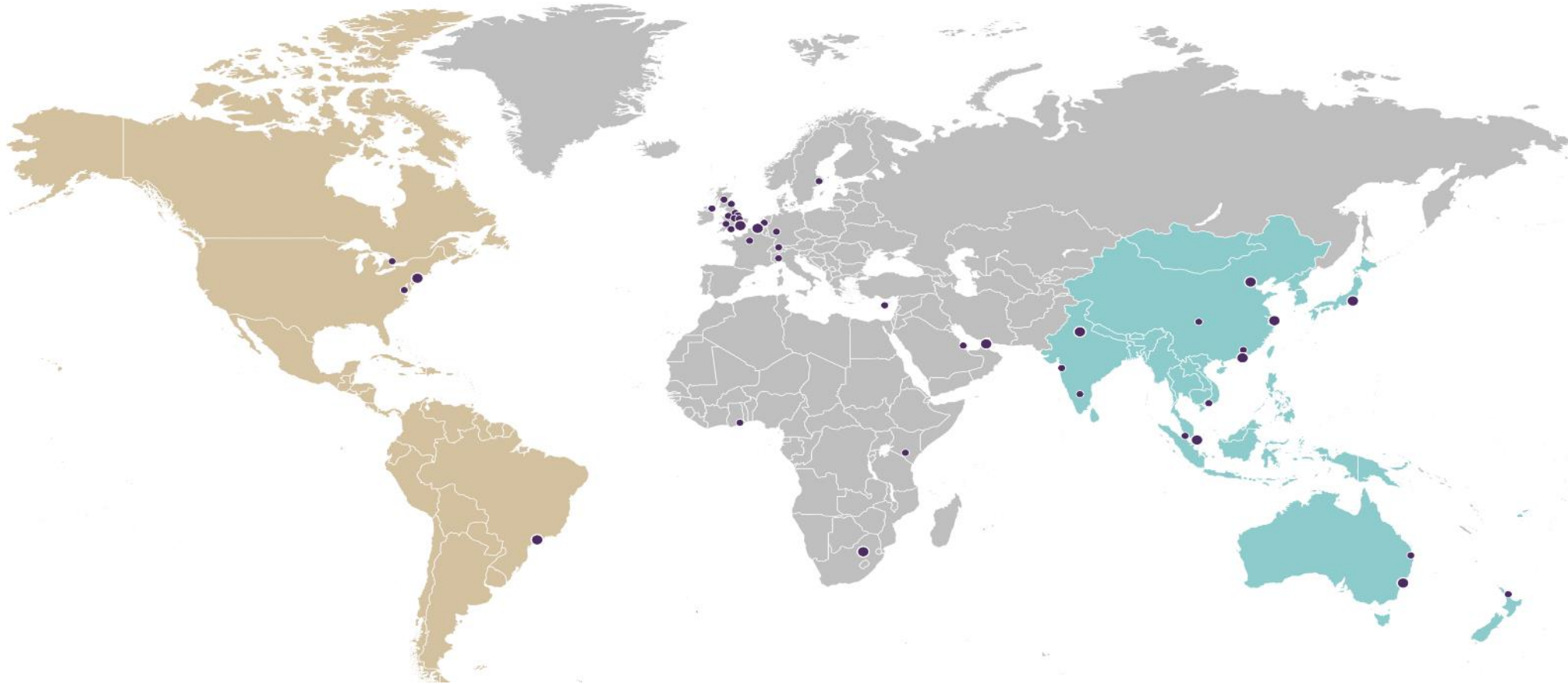
WHY COMMON DATA MODEL CDM X REAL ESTATE IBOS INITIATIVE

RICS. QUALIFIED AND TRAINEE PROFESSIONALS.



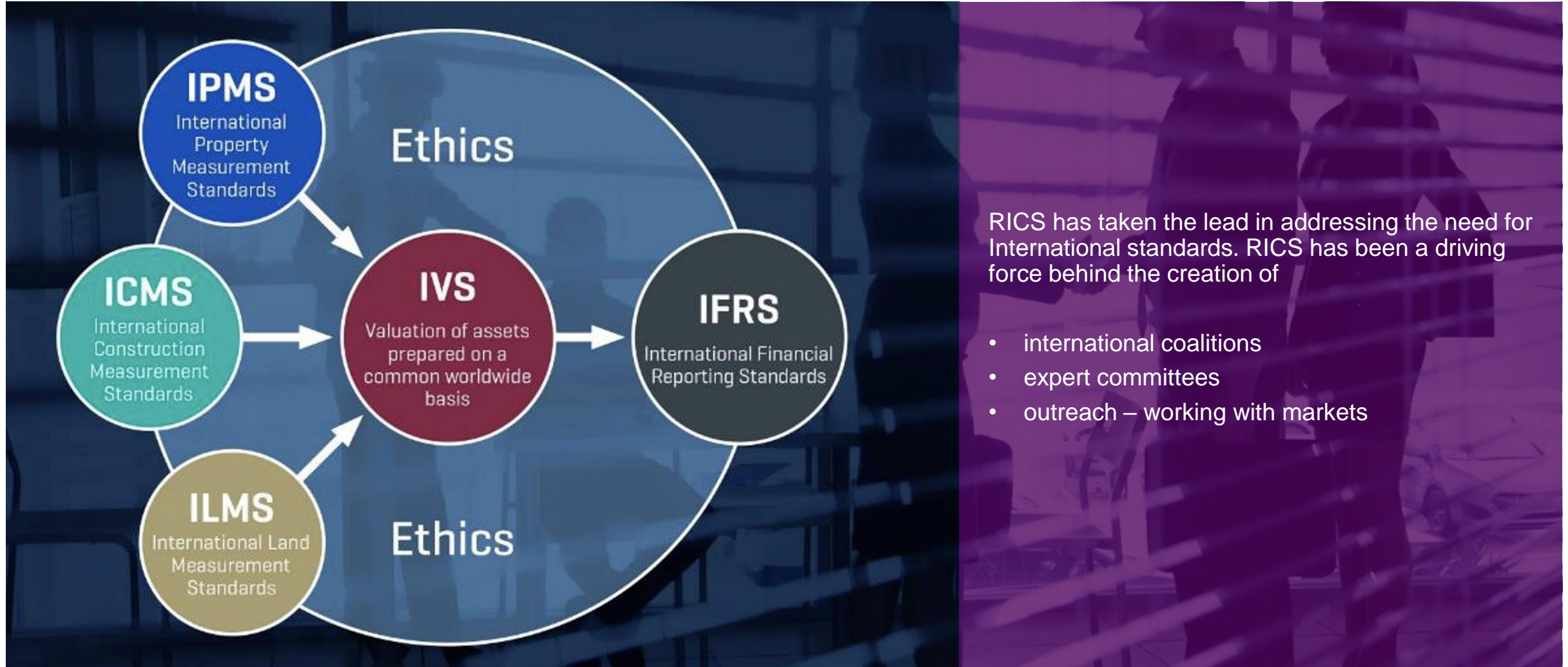
Figures at October 2018

RICS.
OVER 40 GLOBAL OFFICE LOCATIONS.



RICS.

TAKING THE LEAD IN SETTING INTERNATIONAL STANDARDS.

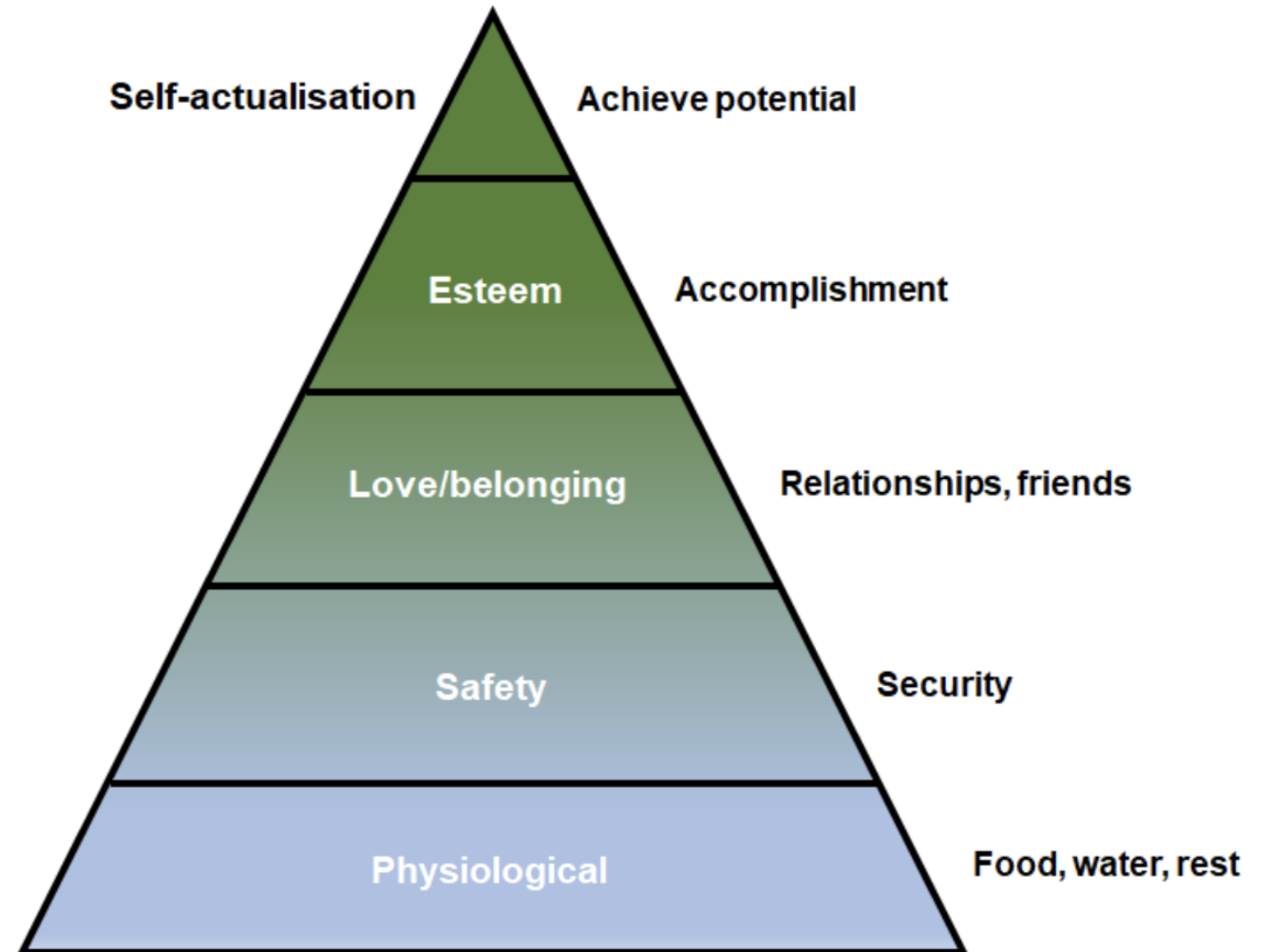


RICS.

MASLOW: RE-INTERPRETED FOR BUILDINGS.



- A new data standard for building operation, performance and optimization
- Metrics and KPIs supported by the common data model
- Scoring of building performance in relation to user requirements
- Relative rather than absolute
- Focused mainly on occupants' requirements
- Decide first about the requirements and then evaluate



COMPLIANT

Utilities

Air quality & temp

Lighting

Sustainable

Safety & security

COMPLIANT

Utilities

Air quality & temp

Lighting

Sustainable

Safety & security

FUNCTIONAL

Access & circulation

Configuration

Risk & resilience

Janitorial

Management

Projected sales of main products in 2013

Distribution of market share among the major industry players



Distribution of market share among the major industry players: ITC and B&T are 78% and 26% percent respectively. A further change in the economic situation in the market will be characterized by a more equal distribution of market share among players.

Projected sales of main products in 2013



COMPLIANT	FUNCTIONAL	ECONOMIC
Utilities	Access & circulation	Total cost/unit area
Air quality & temp	Configuration	Total cost/person
Lighting	Risk & resilience	Density
Sustainable	Janitorial	Efficiency
Safety & security	Management	Flexibility

COMPLIANT

Utilities

Air quality & temp

Lighting

Sustainable

Safety & security

FUNCTIONAL

Access & circulation

Configuration

Risk & resilience

Janitorial

Management

ECONOMIC

Total cost/unit area

Total cost/person

Density

Efficiency

Flexibility

PRODUCTIVE

Settings

Nutrition & hydration

Systems & connectivity

Wellbeing

Natural light & noise





WHY COMMON DATA MODEL CDM X REAL ESTATE IBOS INITIATIVE

INTERNATIONAL BUILDING PERFORMANCE AND DATA INITIATIVE. BASIC STRUCTURE.

Who we are

INTERNATIONAL BUILDING
PERFORMANCE & DATA
INITIATIVE



BUILDING OPERATIONS KPIs
& STANDARDS



COMMON DATA MODEL
FOR REAL ESTATE



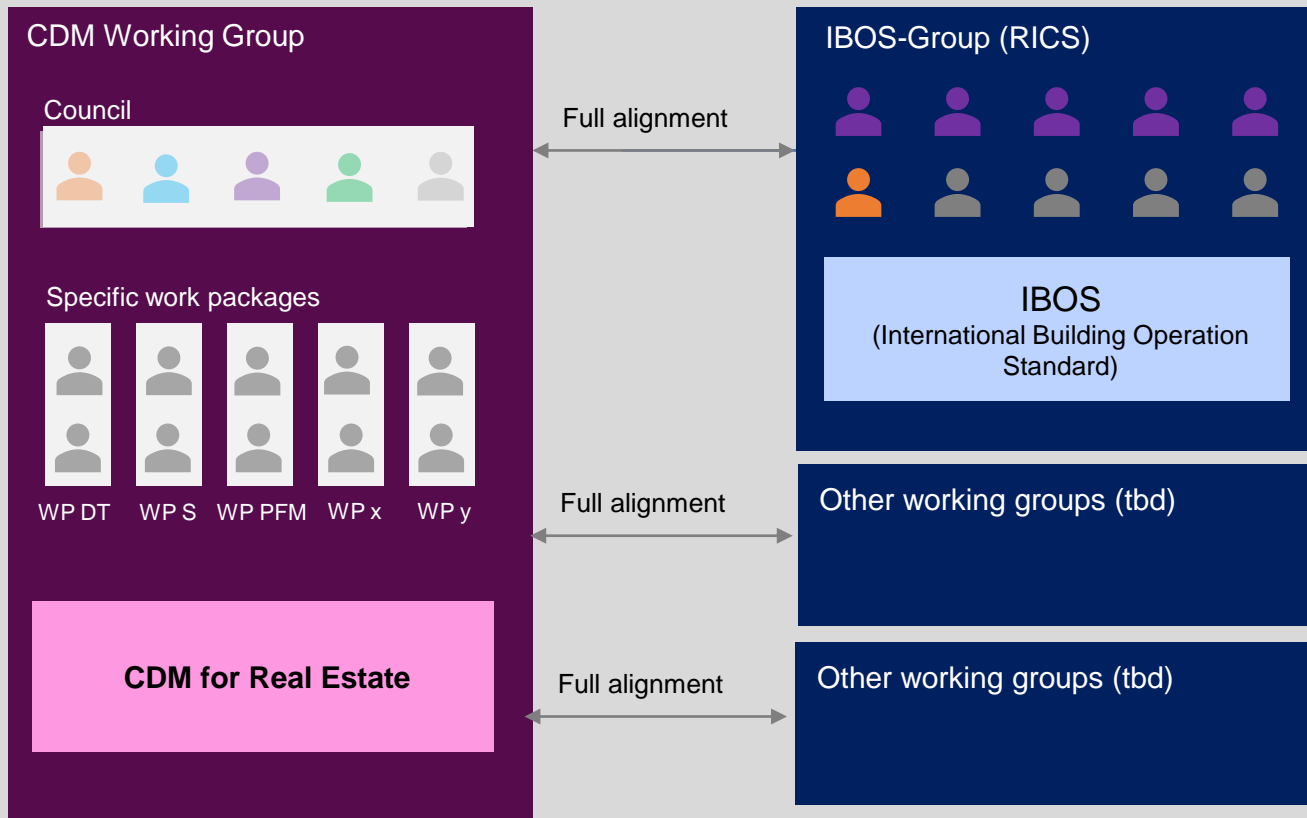
What we'll deliver

INTERNATIONAL BUILDING
PERFORMANCE & DATA
STANDARD

(Consisting of "IBOS"
and the Common Data Model for Real Estate)

INTERNATIONAL BUILDING PERFORMANCE AND DATA INITIATIVE. BASIC STRUCTURE.

WORKING GROUPS (ACTIVE CONTENT GENERATORS)



MARKET TOUCH POINTS (VALIDATION & EXTENSION)

Co-Innovation Customers

Integration and feedback through specific customer projects (proof of concept with real data)

Event

Event with relevant market players for validation and extension

Others

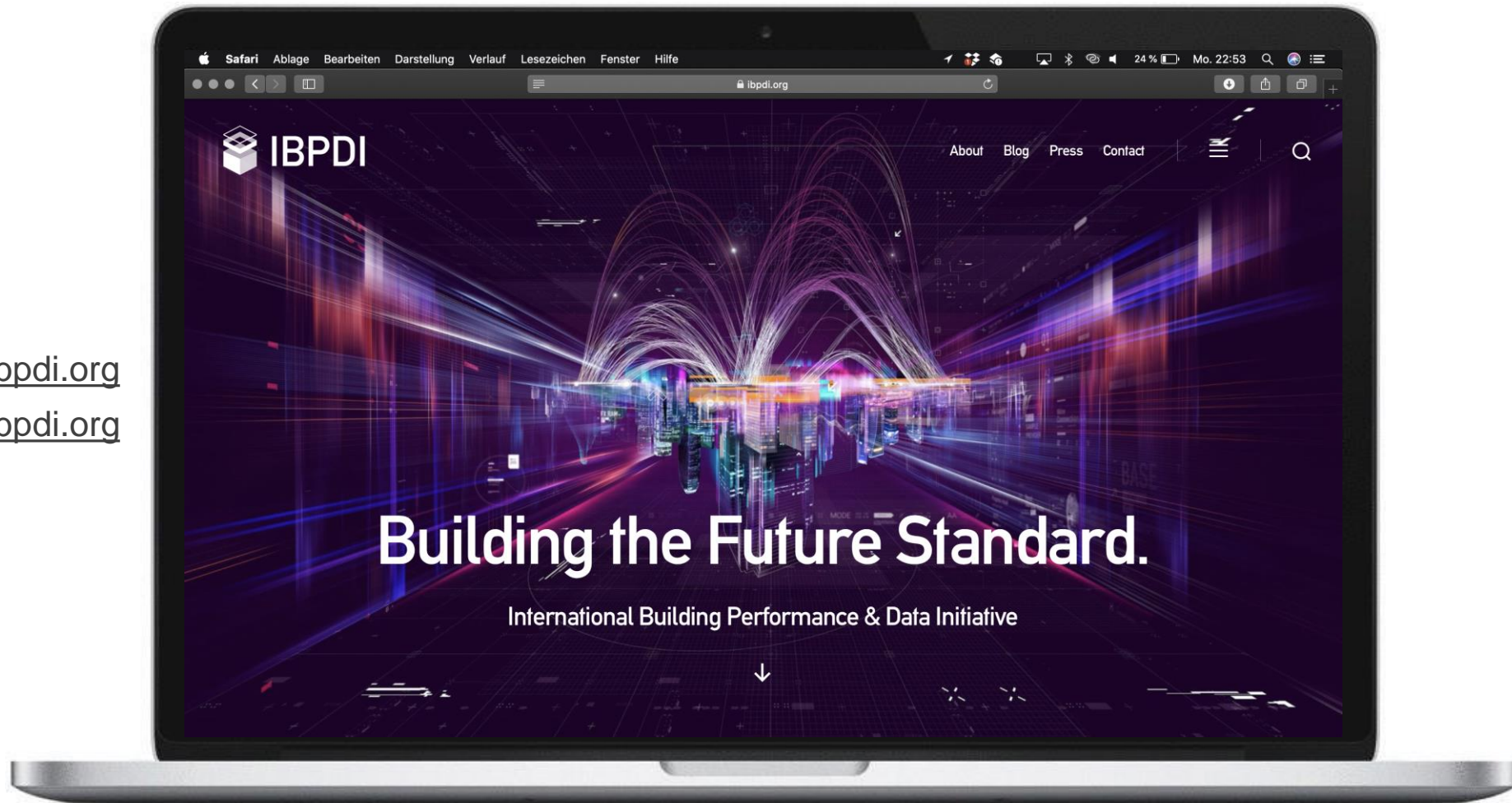
Direct market feedback through further events, appearances, presentations, etc



THERE IS NO SUBSTITUTES' BENCH...

INTERNATIONAL BUILDING PERFORMANCE AND DATA INITIATIVE.
JOIN US IN BUILDING THE FUTURE STANDARD.

www.ibpdi.org
contact@ibpdi.org





IBPDI



THANK YOU!