

Discover What's New Part 2

DI Cambridge

DIUC 2022

Discover What's New Part 2



DI Cambridge
DIUC 2022

Agenda

- ▶ **Recent Developments**
- ▶ **Future Roadmap**



Enterprise **Authentication** – OpenID Connect

- New DiveLine authentication scheme
- DiveLine trusts an external Identity Provider (IdP)
- Unlike LDAP auth, DiveLine never handles user's password
- Same basic idea as “Web Server auth” (DLCGI)
 - User interacts with IdP via web browser
 - Formal Internet standard, built on top of OAuth 2.0
- Supported by all major Identity Providers
 - Azure AD, Keycloak, Okta, Auth0, Google, Ping, Duo

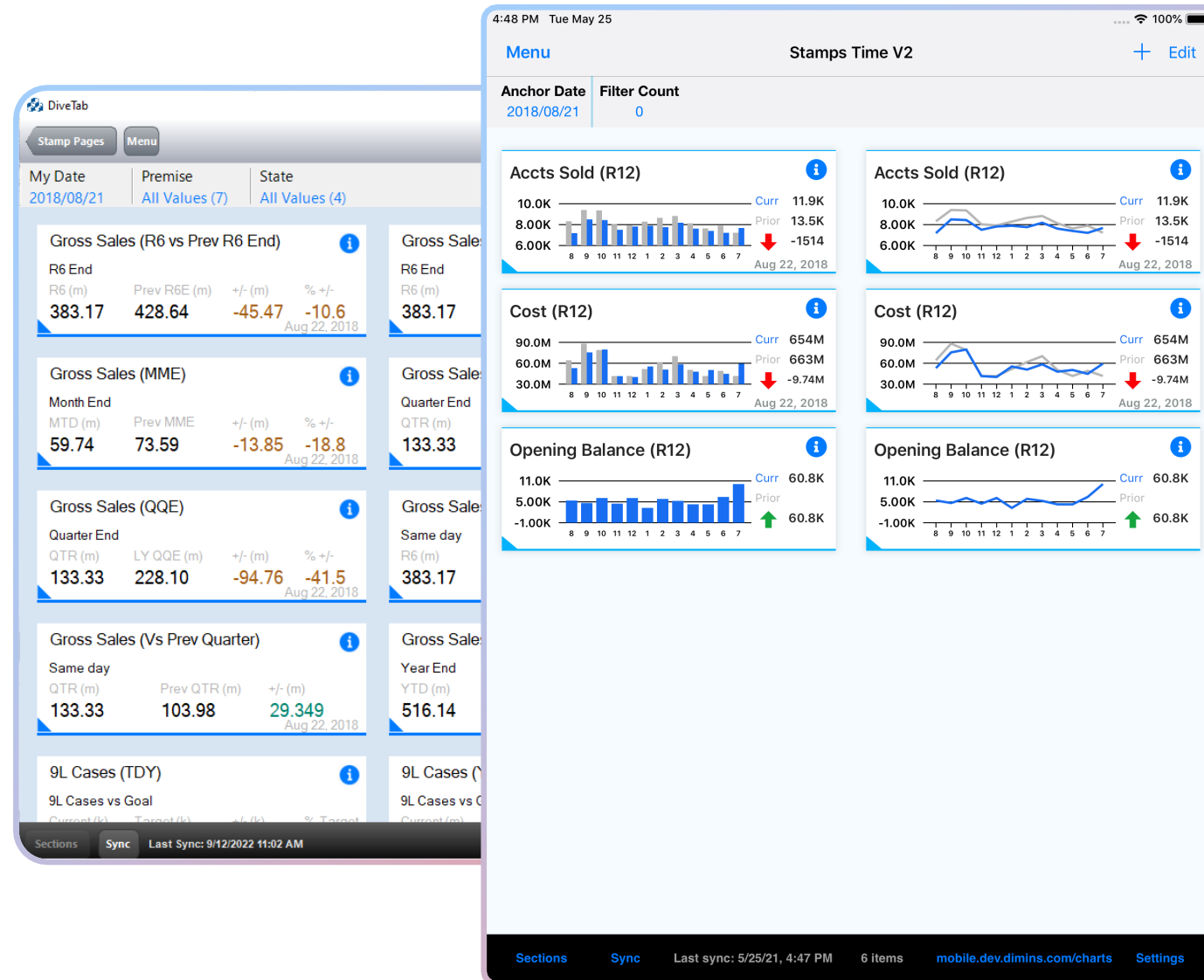


OpenID Connect – Advantages

- Centralized user management
 - Increasingly popular as companies look beyond on-premise Active Directory
- Customer sets policies across organization
 - Password complexity
 - Multifactor Authentication
- Single sign-on possible
 - IdP may be configured to share session cookies / use refresh tokens
- Improved user experience

DiveTab – Stamp Pages

- Stamps display a Measure combines with a time range and optional comparisons
- Ranges: today, month-to-date, quarter-to-date, year-to-date, and Rolling-3, 6, and 12.
- Comparisons: previous or previous-year (complete or to-date), aux-measure
- Chart stamps
- Self-service: User selects Measure plus stamp type. Selections persistent between devices.



DiveTab – DiveBook Pages

- Divebooks from ProDiver can be included in Divetab

The screenshot displays the DiveTab application window. The title bar reads "DiveTab" and "Divebook Page". Below the title bar are two buttons: "Misc" and "Menu". The main content area is divided into three columns: "Areas", "Topics", and "Topic Info".

Areas	Topics	Topic Info
Tabulars	☒ Internal Marker	test info message
Reports	☒ Southern Salespeople	
Charts	☒ Business Type	
Ad Hoc Analysis	☒ Sales Region	
Web Links	☒ Month/Product MultiTab	
	☒ Region/Month CrossTab	

The bottom status bar contains the following information: "Sections", "Sync", "Last Sync: 9/2/2022 4:48 PM", "6 Topics", the URL "merlot.cambridge.dimins.com/diveport71", and a "Logout" button.

DiveTab – Surveys

- Supported on DiveTab PC
- Multi-dimension survey assignments
- Conditional, repeating, and cBase-backed questions

4:16 PM Mon Jun 27 100%

< All Surveys Menu On Premise Survey

Does the account have a printed Wine List?

Yes No

Wine

By the Glass

Total Reds Our Reds Total Whites Our Whites

Total Sparkling Our Sparkling Total Desert Our Desert

Bottle List

Total Bottles Our Bottles

Does the account have a banquet pour?

Yes No

Does the account have a house or happy hour wine?

Yes No

Does the account have a printed Beer List?

Yes No

Account Visits per Month? How many times has this account been tasted?

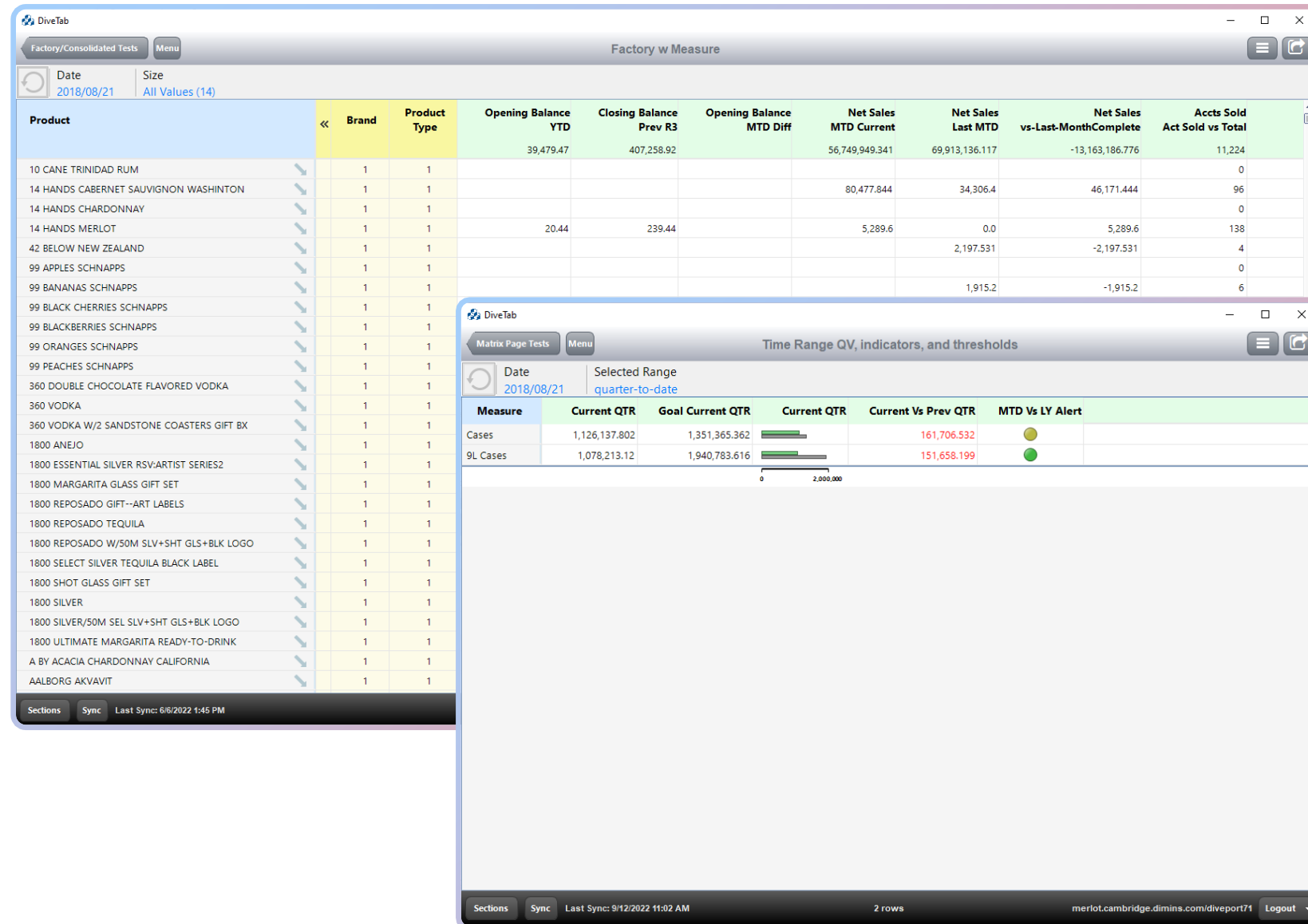
Additional Notes on the Account

15 required questions remaining Clear Save

Sections Sync Last sync: 5/19/22, 9:11 AM bridge.dimins.com/GSurveyAdvisor

DiveTab – Measure Factory Integration

- Use factory directly in a data page, in place of cplan. - Columns are measure definitions
- Dive, Central, Overview, and Cross pages.
- New page type: Matrix page
 - Each row is a measure and each column a time range or comparison



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- ▶ **Future Roadmap**

Diver Platform – Future Roadmap

Business Intelligence

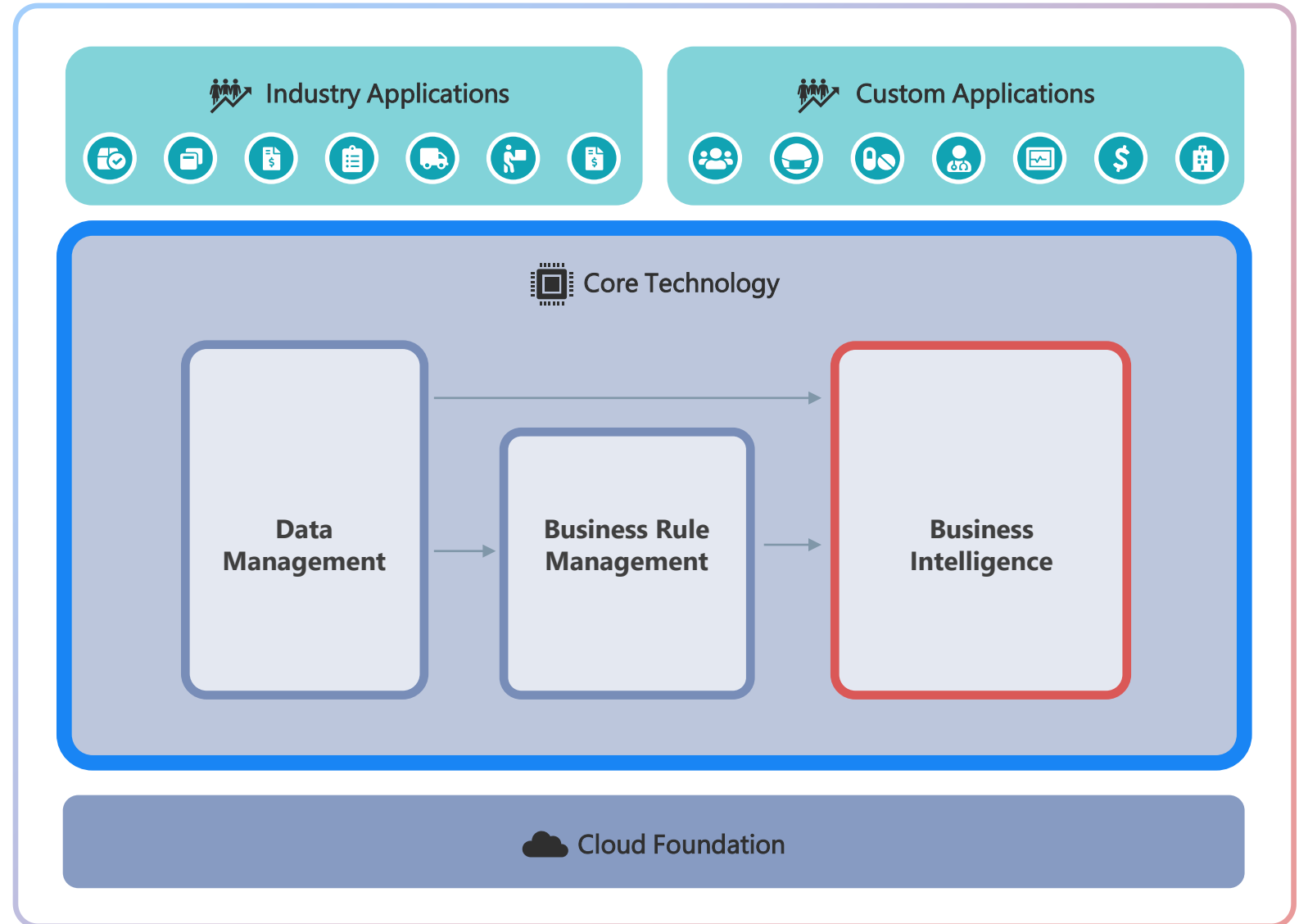
- **My Library in DiveTab**
- Analytical Dashboards
- Springboard
- Stamps without MF
- Control Charts
- Gateway integration enhancements

Business Rules

- Future of Measure Factory

Data Management

- Enhanced Spectre
- Spectre Flow Scripts





Beverage Type All Values (2)		DISCUS Major Category All Values (16)		Premise Indicator All Values (3)		Size All Values (14)	Last Full Month 2022/07/31	MyVendor BACARDI USA INC (530)	TimeRange MTH	
State	»	Cases 9L MTH 343,662	MTH LY 360,707	Change -17,045	% Change -4.73%	«	Cases 9L MTH ALL 6,513,018	Cases 9L MTH Share 5.28%	Dollars Shelf MTH 95,353,627	»
AL		13,723	13,979	-256	-1.83%		284,674	4.82%	4,213,052	
IA		7,963	9,216	-1,253	-13.60%		216,450	3.68%	1,981,714	
ID		5,808	5,920	-112	-1.89%		131,972	4.40%	1,578,457	
MD		3,465	3,713	-248	-6.69%		111,252	3.11%	912,534	
ME		10,516	10,123	393	3.88%		144,365	7.28%	2,111,252	
MI		56,728	58,764	-2,035	-3.46%		751,553	7.55%	17,068,695	
MS		7,857	7,137	720	10.09%		271,658	2.89%	2,037,851	
MT		4,112	3,818	294	7.71%		96,895	4.24%	967,474	
NC		45,452	45,614	-162	-0.35%		657,518	6.91%	13,457,178	
NH		23,182	24,699	-1,517	-6.14%		502,306	4.62%	4,027,687	
OH		49,342	56,998	-7,656	-13.43%		623,986	7.91%	17,584,482	
OR		14,464	14,795	-331	-2.24%		311,373	4.65%	4,075,368	
PA		50,988	52,766	-1,778	-3.37%		1,434,688	3.55%	12,075,224	
UT		6,494	6,235	258	4.14%		261,806	2.48%	1,634,648	
VA		34,735	37,790	-3,055	-8.08%		498,481	6.97%	9,776,445	
VT		2,739	2,853	-114	-4.00%		42,416	6.46%	620,126	
WV		3,258	3,646	-388	-10.65%		67,909	4.80%	651,004	
WY		2,836	2,640	196	7.41%		103,717	2.73%	580,437	

Anchor Date
2017/07/10Filter Count
0

Cases (MTD)

Same day

MTD (k)	LY MTD (k)	+/-	% +/-
46.45	44.64	1808	4.0

Cases (MTD)

Same day

MTD (k)	LY MTD (k)	+/-	% +/-
46.45	44.64	1808	4.0

Cases (MTD)

Same day

MTD (k)	LY MTD (k)	+/-	% +/-
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Same day

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Cases (MTD)

Same day

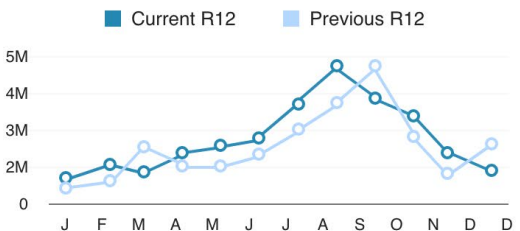
MTD (k)	LY MTD (k)	+/-	% +/-
46.45	44.64	1808	4.0

Cases (MTD)

Same day

MTD (k)	LY MTD (k)	+/-	% +/-
46.45	44.64	1808	4.0

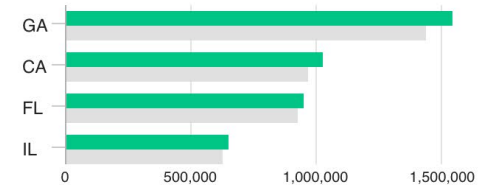
Case R12



Cases TYD vs Goal



Top Cases YTD



Cases (MTD)

Same day

MTD (k)	LY MTD (k)	+/-	% +/-
46.45	44.64	1808	4.0

Cases (MTD)

Same day

MTD (k)	LY MTD (k)	+/-	% +/-
46.45	44.64	1808	4.0

Cases (MTD)

Same day

MTD (k)	LY MTD (k)	+/-	% +/-
46.45	44.64	1808	4.0



My Library

Demo
Dashboard 1Demo
Dashboard 2Demo
Dashboard 3

Report 1

Measure
Dictionary

SHORTCUTS

Shared >

Demo Application 1 ▾



GENERAL

Demo
Dashboard 1Demo
Dashboard 2Demo
Dashboard 3

Report 1

Measure
Dictionary

CURRENT

Today

Yesterday

Month



DEPARTMENT

Today

Yesterday

Month

Demo Application 2 >

Demo Application 3 >

Cases (MTD) ⓘ

Same day

MTD (k)

LY MTD (k)

+/-

% +/-

Cases (MTD) ⓘ

Same day

MTD (k)

LY MTD (k)

+/-

% +/-

Cases (MTD) ⓘ

Same day

MTD (k)

LY MTD (k)

+/-

% +/-

Sections

Sync

Last sync: 4/26/20, 5:08 PM

10 items

Settings

Diver Platform – Future Roadmap

Business Intelligence

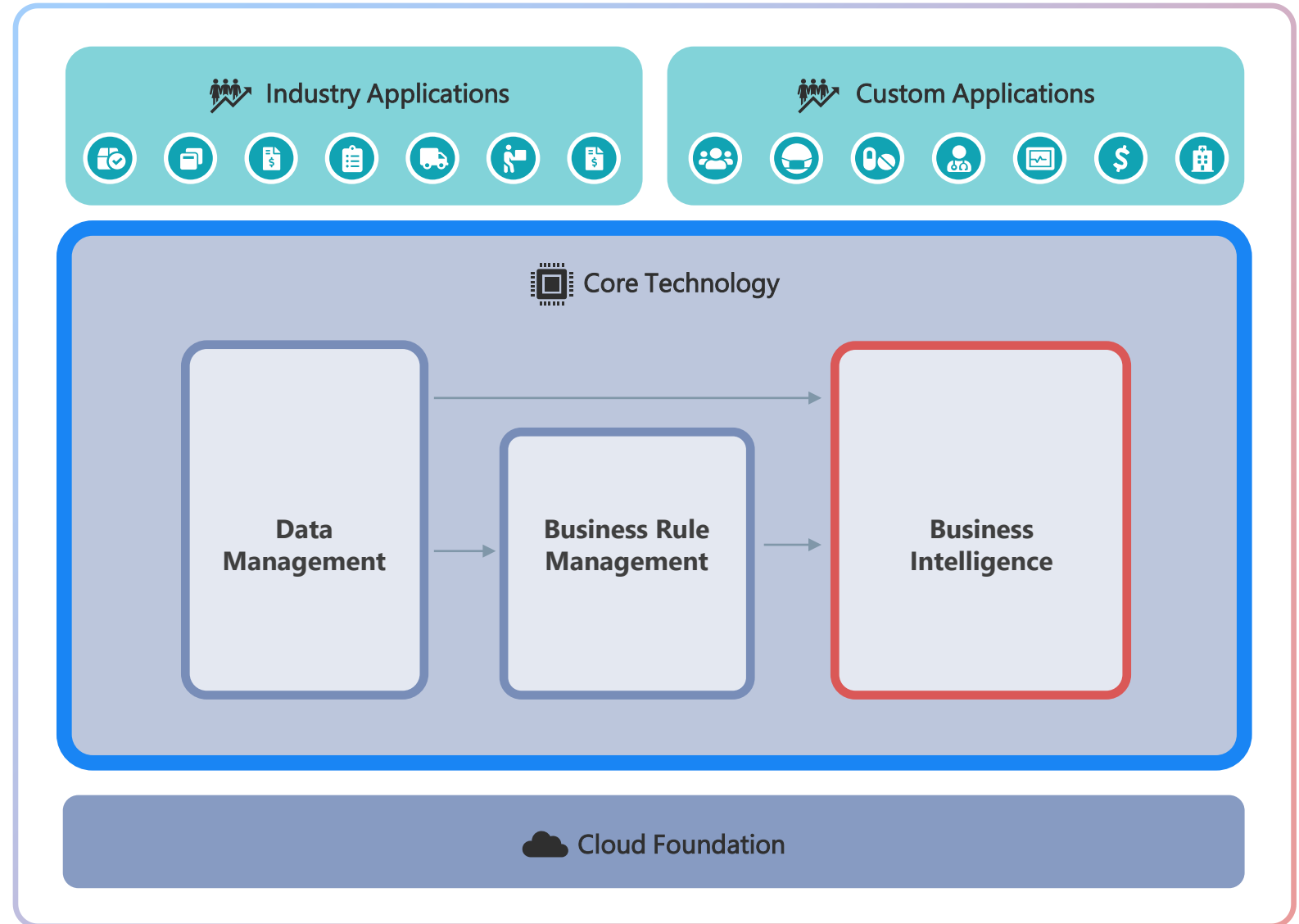
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A New Type of Dashboard – Analytical Dashboard

Manual Dashboard

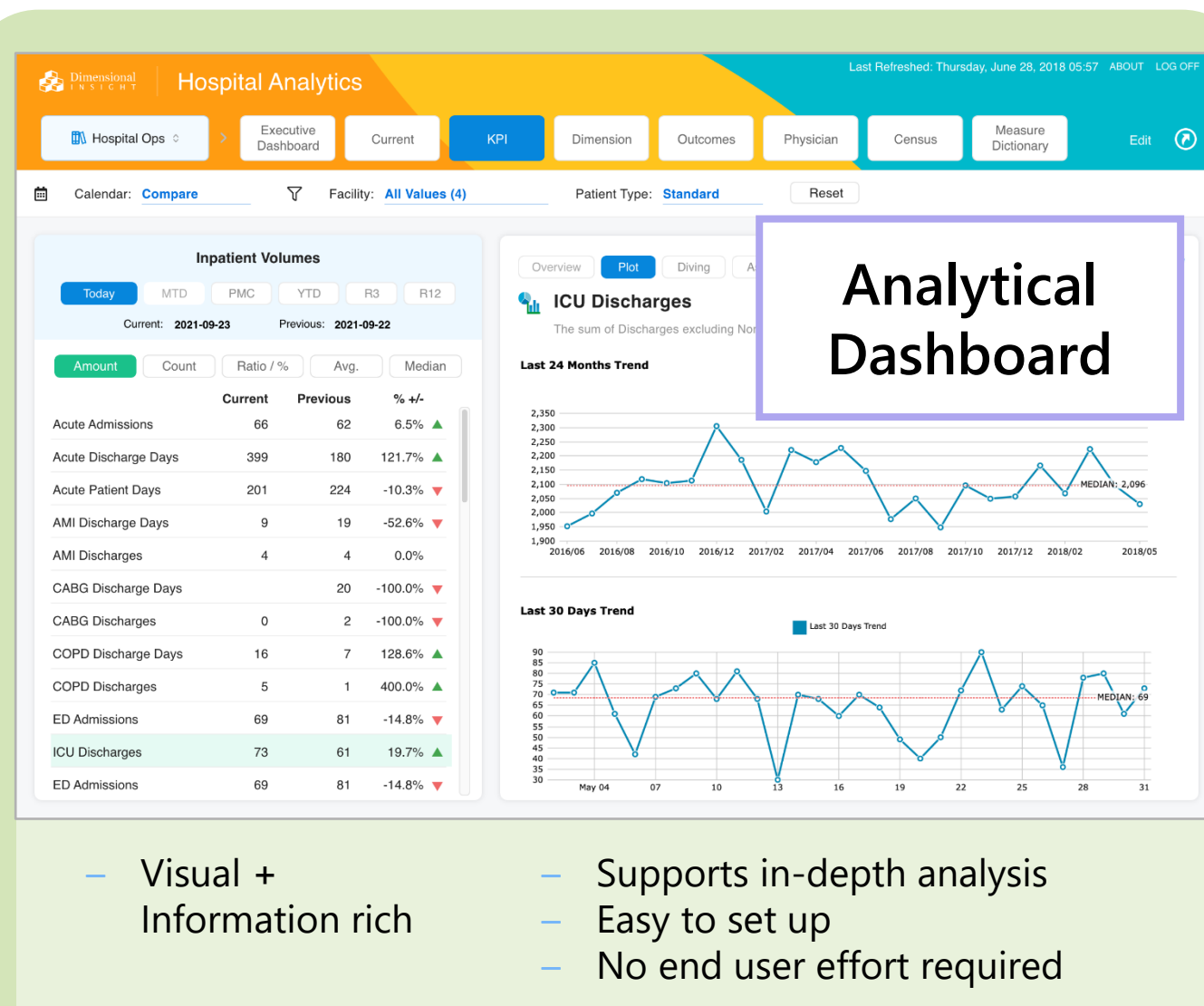
- Visual
- Flexible
- Significant set-up time
- Hard to satisfy all users' requirements

KPI Dashboard

- Information rich
- Less visual

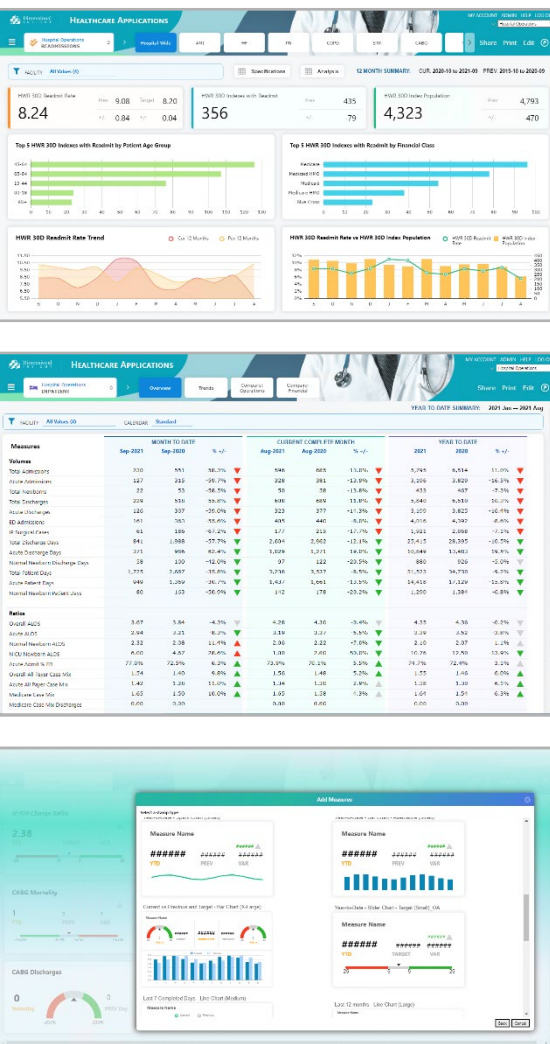
Self-service Dashboard

- Visual
- Satisfies personalized requirements
- Requires some effort from end users



- Visual + Information rich

- Supports in-depth analysis
- Easy to set up
- No end user effort required



Anatomy of an Analytical Dashboard

Calendar

QV's

KPI Cluster

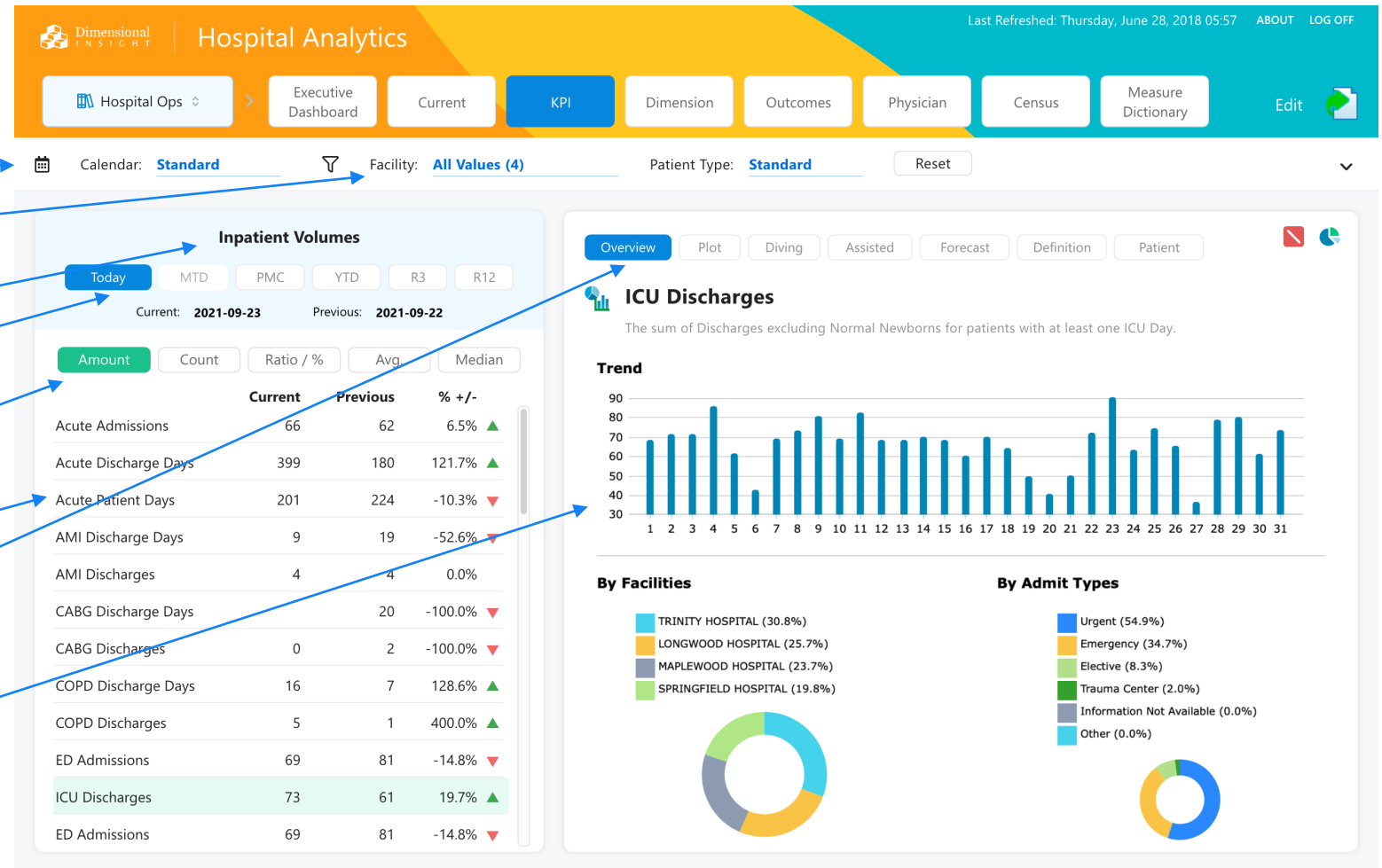
Time

KPI Cluster Type

KPI

Display type

Display



Easy to Set Up & Deploy

Setup wizard (for power users)

- Choose KPI family (for left side of page)
- Identify date ranges
- Choose quickviews
- Choose displays (for right side of page)
- Publish to My Library

The screenshot displays the 'Hospital Analytics' interface with a 'New KPI Page' wizard. The wizard has six steps: 1. Basic Info., 2. KPI, 3. Date Ranges (active), 4. Quickviews, 5. Displays, and 6. Summary. In the 'Date Ranges' step, the 'Available Date Ranges' section shows checkboxes for 'Today', 'YTD', 'QTD', and 'MTD'. The 'Today' range is selected, and the 'Date Range' is set to 'Complete Day'. The 'Page Name' is 'My KPI Page 1'. The 'Selected KPI Cluster' is 'Inpatient Ratios', which includes 'Acute Admit % ED', 'Overall All Payer Case Mix', 'Acute All Payer Case Mix', and 'Medicare Case Mix'. The 'Edit KPI Page' screen shows the 'Choose a display' step. The 'Label' is 'Overview'. The 'Display Type' is 'Trend'. The 'Trend' chart shows a bar chart of data over 31 days. The 'By Facilities' section shows a donut chart with data for Trinity Hospital (30.8%), Longwood Hospital (25.7%), Maplewood Hospital (23.7%), and Springfield Hospital (19.8%). The 'By Admit Types' section shows a donut chart with data for Urgent (54.9%), Emergency (34.7%), Elective (8.3%), Trauma Center (2.0%), Information Not Available (0.0%), and Other (0.0%).



Hospital Overview

Executive

Current

KPI

Dimensional

Categories

Physician

Care

Measure



Calendar

Tools

Acute Admissions

Acute Discharges

Acute Patient Days

AMI Discharges

AMI Discharges

CABG Discharges

CABG Discharges

COPD Discharges

COPD Discharges

ED Admissions

ICU Discharges

ED Admissions

73

61

19.7% ▲

69

81

-14.8% ▼

New KPI Page



1

Basic Info.

2

KPI

3

Date Ranges

4

Quickviews

5

Displays

6

Summary

Page Name

Next

Cancel



Hospital Ops

Executive

Current

KPI

Dimension

Outcomes

Physician

Cause

Measure



Calendar

Tools

Acute Adm

Acute Dis

Acute Pa

AMI Dis

AMI Dis

CABG D

CABG D

COPD D

COPD D

ED Adm

ICU Discharges

ED Admissions

"My KPI Page 1"

1

Basic Info.

2

KPI

3

Date Ranges

4

Quickviews

5

Displays

6

Summary

Choose a KPI cluster:

Hospital Operations

☐ ▶ Inpatient Volumes 15☒ ▶ Inpatient Ratios 4

Acute Admit % ED

Overall All Payer Case Mix

Acute All Payer Case Mix

Medicare Case Mix

☐ ▶ Inpatient Revenue 3☐ ▶ Outpatient Volumes 15☐ ▶ Outpatient Ratios 7☐ ▶ Outpatient Revenue 2

Overall All Payer Case Mix

Definition

The sum total of CMS DRG case weights for All Inpatient Accounts discharged with a coded DRG weight./Total Count of All Inpatients with coded DRG Cases weights applied to all Inpatient Accounts and Payers.

Business Logic

All Payor Case Mix Total divided by All Payor Case Mix Discharges Inpatient Account: Accounts with Inpatient bed charges or where Patient Type is Inpatient. Accounts with at least one Charge in the Revenue Code range of 017x or (011x to 015x or 020x to 021x that does not include 4,5 or 8 as the 4th digit). NICU: Any Accounts having a charge with a Revenue Code in the range of 017x AND a Special Care Nursery Account Special Care Nursery Account: Any Account having a Total Charge Quantity greater than zero in a Department that has been designated as a Special Care Nursery (includes NICU).

Expression

Calculation `average(value("MS-DRG Case Mix"))`Filter `(value("Discharge") or value("Normal Newborn Discharge")) and value...`

References

Back

Next

Cancel

73

61

19.7% ▲

69

81

-14.8% ▼



Hospital Overview

Executive

Current

KPI

Dimension

Outcomes

Physician

Case

Measure



Calendar

Tools

Acute Admit

Acute Discharge

Acute Payer

AMI Discharge

AMI Discharge

CABG Discharge

CABG Discharge

COPD Discharge

COPD Discharge

ED Admissions

ICU Discharges

ED Admissions

"My KPI Page 1"

1

Basic Info.

2

KPI

3

Date Ranges

4

Quickviews

5

Displays

6

Summary

Available Date Ranges:

Page Name

Edit

My KPI Page 1

Selected KPI Cluster

Edit

Inpatient Ratios

Acute Admit % ED

Overall All Payer Case Mix

Acute All Payer Case Mix

Medicare Case Mix

☒ Today Complete Day

☒ YTD Year to Date

☒ QTD Quarter to Date

☒ MTD Month to Date

☐ R3 ROLLING 3 MONTHS

☒ R6 ROLLING 6 MONTHS

☐ R12 ROLLING 12 MONTHS

☐ R24 ROLLING 24 MONTHS

Title:

Today

Date Range:

Complete Day

Period:

Current

Back

Next

Cancel

73

61

19.7% ▲

69

81

-14.8% ▼



Hospital Overview

Executive

Current

KPI

Dimension

Outcomes

Physician

Case

Measure



Calendar

Tools

Acute Adm

Acute Dis

Acute Pa

AMI Dis

AMI Dis

CABG D

CABG D

COPD D

COPD D

ED Adm

ICU Discharges

ED Admissions

"My KPI Page 1"

1

Basic Info.

2

KPI

3

Date Ranges

4

Quickviews

5

Displays

6

Summary

Page Name

Edit

My KPI Page 1

Selected KPI Cluster

Edit

Inpatient Ratios

Acute Admit % ED

Overall All Payer Case Mix

Acute All Payer Case Mix

Medicare Case Mix

Selected Date Ranges

Edit

Today Complete Day

YTD Year to Date

QTD Quarter to Date

MTD Month to Date

R6 Rolling 6 Months

Available Quickviews:

☒ Account Chronic Diseases

☐ Account ID

☒ Admit Date

☐ Admit Day of Week

☐ Admit Fiscal Year

☐ Admit Fiscal Year-Mo

☐ Admit Location

☐ Admit Month

QuickView:

Account Chronic Diseases

Label:

Account Chronic Diseases

Back

Next

Cancel

73

61

19.7% ▲

69

81

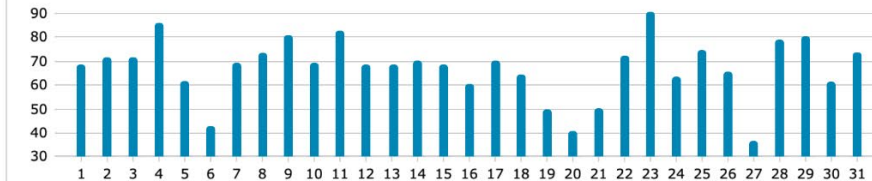
-14.8% ▼

Label:

Overview

Display Type:

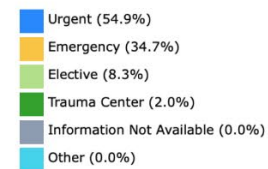
Trend



By Facilities



By Admit Types



○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○

OK

Cancel

Done

Cancel

73

61

19.7% ▲

69

81

-14.8% ▼

Hospital Ops

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Acute Adm

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CABG D

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"My KPI Page 1"

1

Basic Info.

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5

Displays

6

Summary

Page Name

Edit

My KPI Page 1

Selected KPI Cluster

Edit

Inpatient Ratios

Acute Admit % ED

Overall All Payer Case Mix

Acute All Payer Case Mix

Medicare Case Mix

Selected Date Ranges

Edit

Today Complete Day

YTD Year to Date

QTD Quarter to Date

MTD Month to Date

R6 Rolling 6 Months

Selected QuickViews

Edit

Account Chronic Diseases

Admit Date

Selected Displays

Edit

Overview

Plot

Diving

Back

Create

Cancel

73

61

19.7% ▲

69

81

-14.8% ▼

Inpatient Ratios

[Today](#)
[YTD](#)
[QTD](#)
[MTD](#)
[R6](#)

Current: 2021-09-23

Previous: 2021-09-22

[Amount](#)
[Count](#)
[Ratio / %](#)
[Avg.](#)
[Median](#)

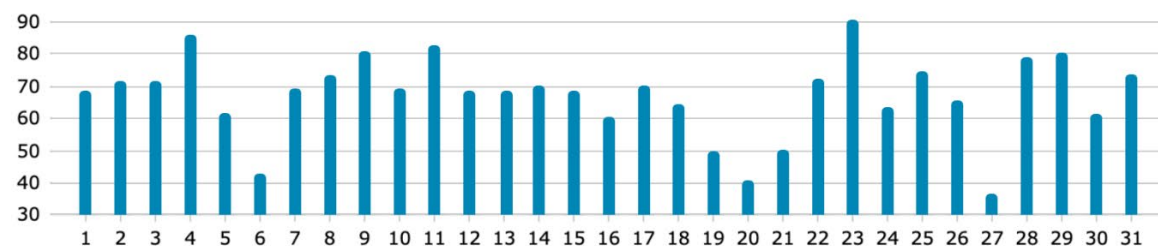
	Current	Previous	% +/-
Acute Admit % ED	66	62	6.5% ▲
Overall All Payer Case Mix	399	180	121.7% ▲
Acute All Payer Case Mix	201	224	-10.3% ▼
Medicare Case Mix	9	19	-52.6% ▼

[Overview](#)
[Plot](#)
[Diving](#)

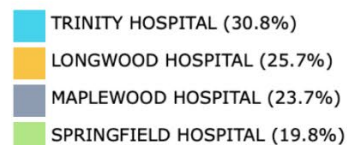

Acute Admit % ED

Measure definition of "Acute Admit % ED".

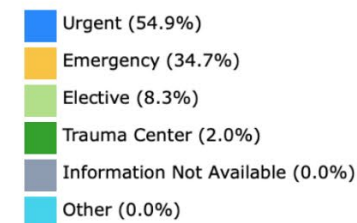
Trend



By Facilities



By Admit Types



Diver Platform – Future Roadmap

Business Intelligence

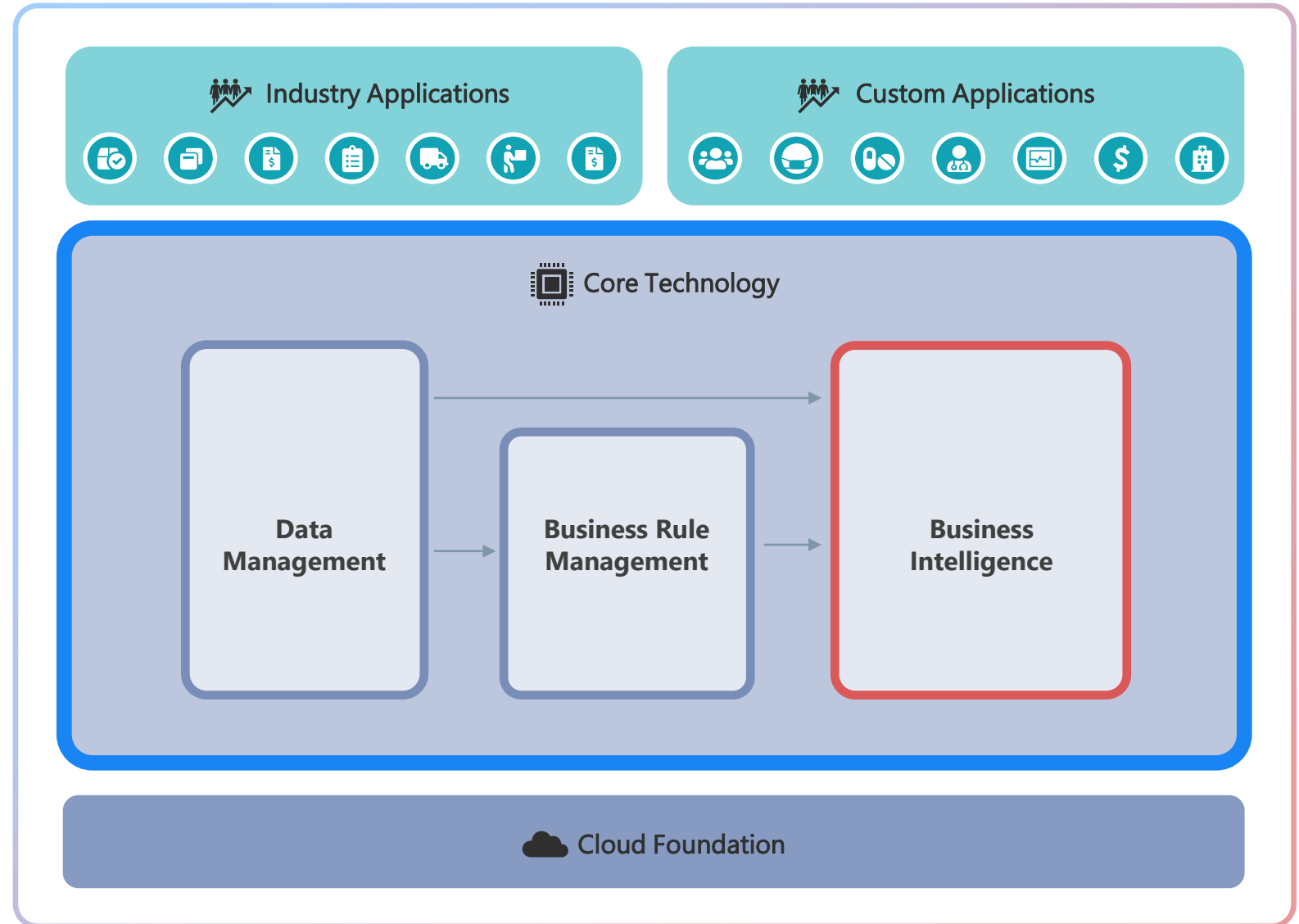
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Springboard

Browser-based reporting and analysis

Build a complex report with sections, tables, charts, text, etc.
Powerful data-driven components
Runs in a web page

Springboard

Browser-based reporting and analysis

This table has a dive instruction. Dive instructions allow rows to be repeated in a table for each value in a dimension. The dive instruction has instructions inside of it. In this there is a text instruction inside the dive, so the table has one text row for each dimension value. In table mode, when you click on one of those rows (e.g. row 3) it will select the instruction, but it will highlight multiple rows! That's because that text instruction is responsible for each of those rows. Try opening the instruction tree on the right and expanding the dive row to see how the instructions are connected.

Sales Region	Units	Cost	
Boston	201,507	4,114,284.34	4,38
North	92,320	1,849,864.62	1,98
Rhode Island	128,843	2,523,042.75	2,71
South Shore	113,306	2,353,137.81	2,50

Report Structure:

- Report
 - Header
 - Body
 - Title
 - Area
 - Section
 - Section
 - Section
 - Section
 - Section
 - Section
 - Section
 - Next

Data Bank:

demo_drs

Dimensions: Address1, Customer, Customer ID

Measures: Cost, Revenue, Units

Diver Platform – Future Roadmap

Business Intelligence

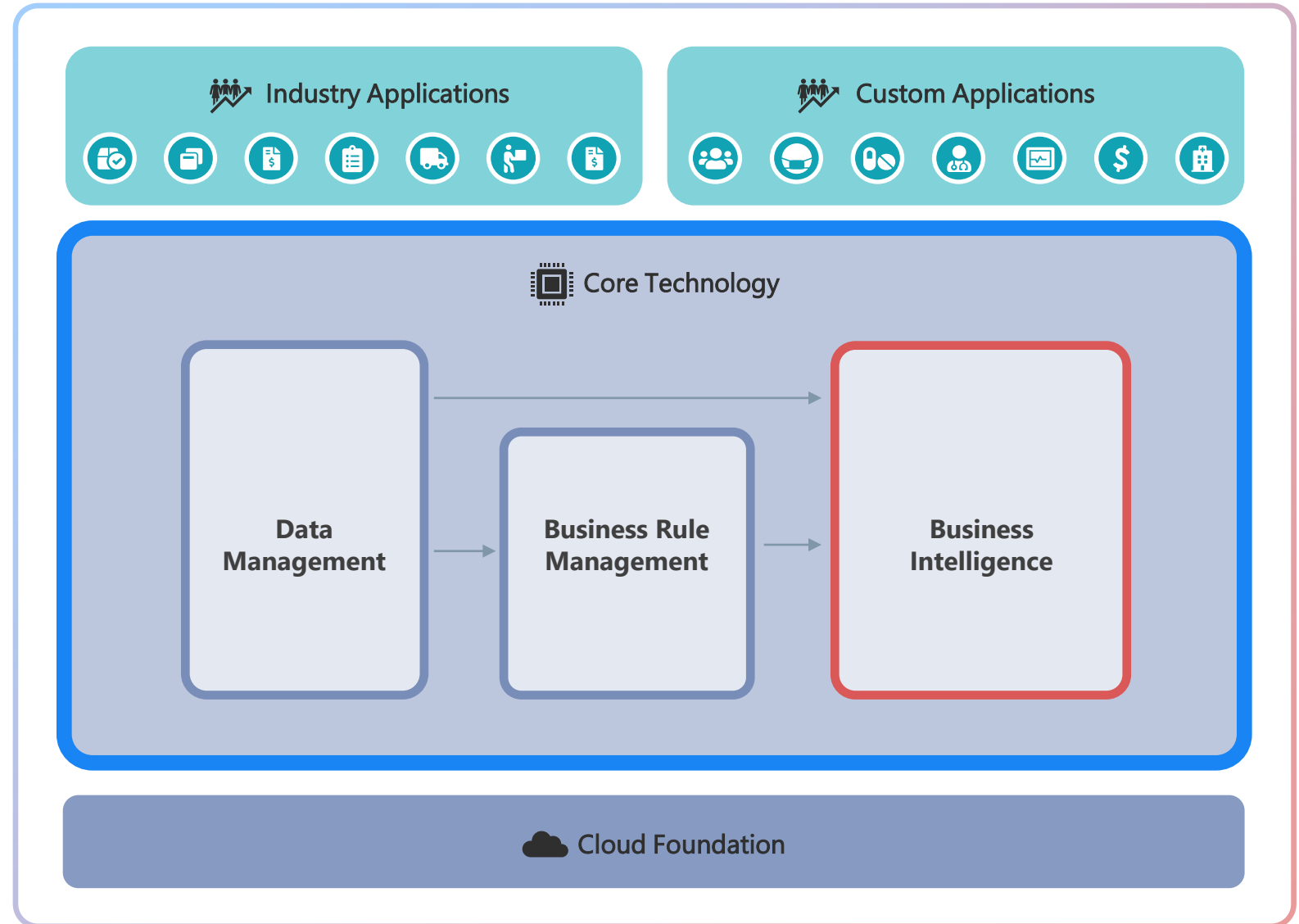
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Stamps without Measure Factory

Browser-based reporting and analysis

Not every data set needs the full power of the Measure Factory.
Some features are currently Measure-Factory-only.
We'd like to open them up to non-MF usage

- Matrix Portlet
- Stamp Portlet
- Self Service

Diver Platform – Future Roadmap

Business Intelligence

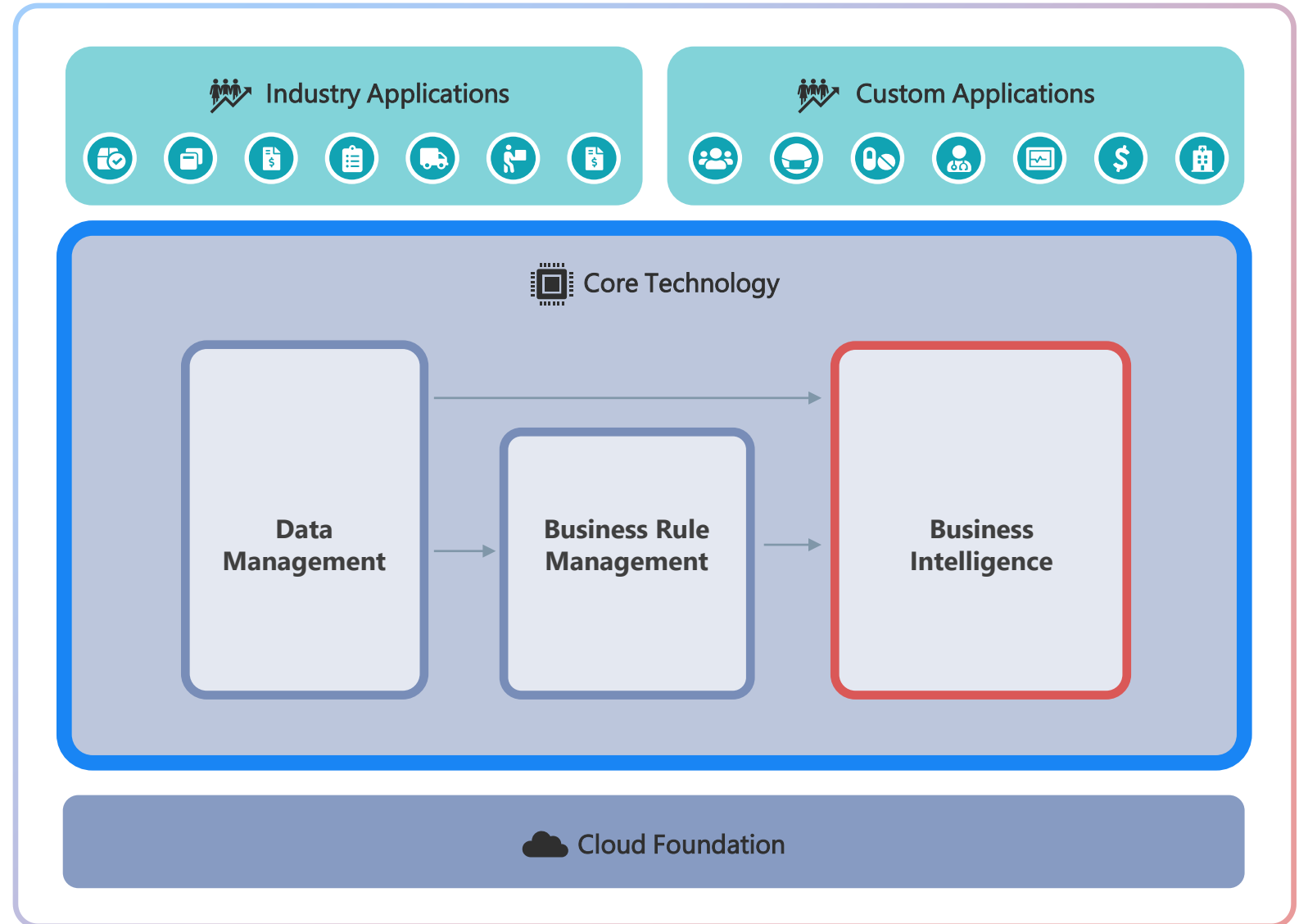
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Control Charts in DivePort

Keeping processes under control with science

Already present in Markers, it's time to add them to the Chart Portlet

- Control charts assist in analyzing a process over time
- Help to identify "signals" – where something in the process has changed



Diver Platform – Future Roadmap

Business Intelligence

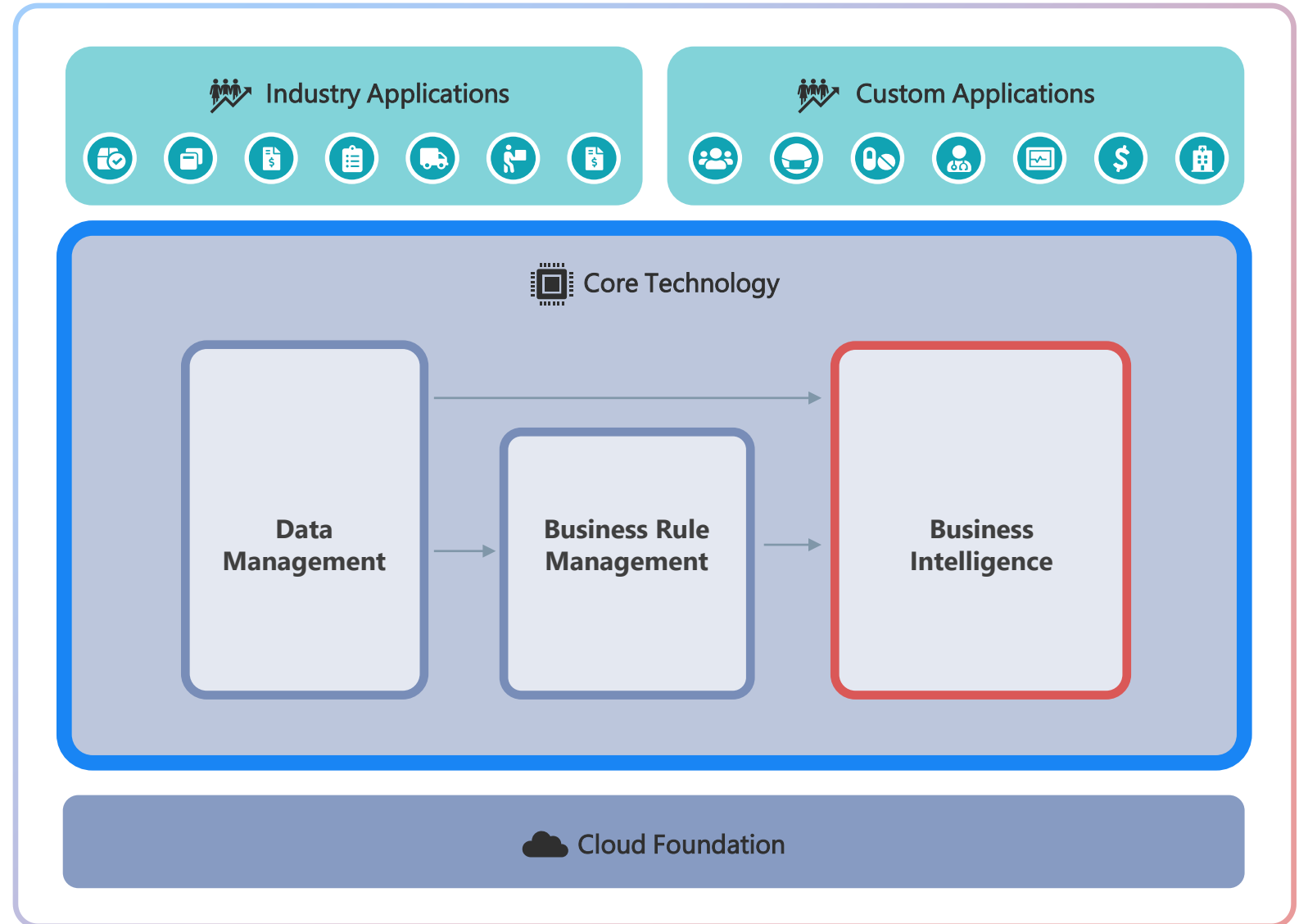
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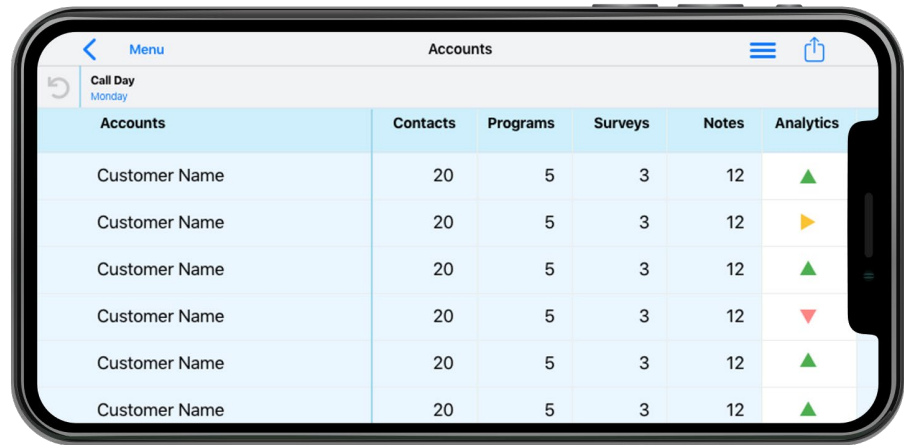
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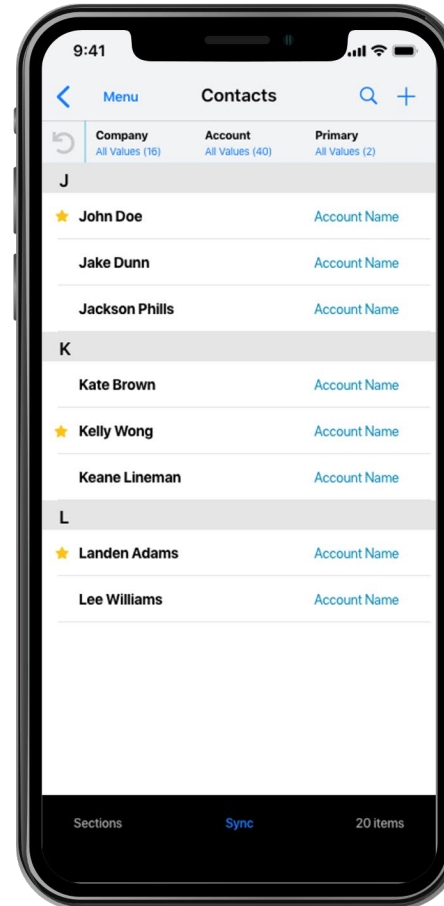


Integrated Sales Collaboration



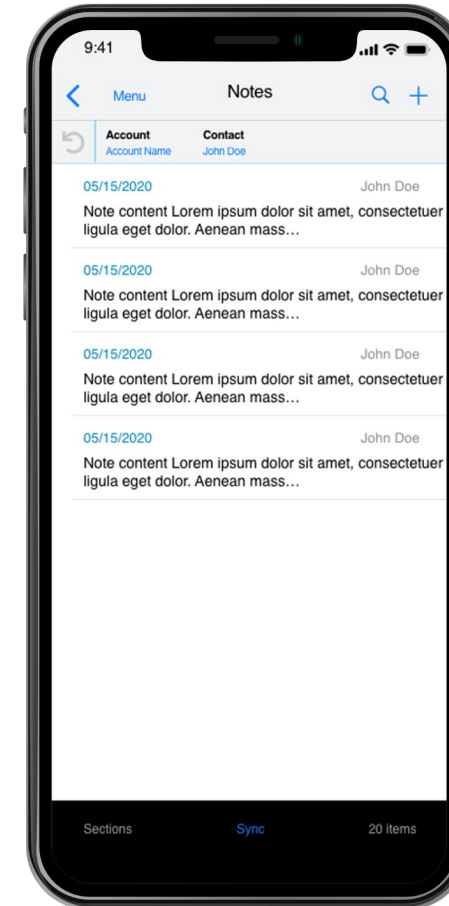
Accounts	Contacts	Programs	Surveys	Notes	Analytics
Customer Name	20	5	3	12	▲
Customer Name	20	5	3	12	▶
Customer Name	20	5	3	12	▲
Customer Name	20	5	3	12	▼
Customer Name	20	5	3	12	▲
Customer Name	20	5	3	12	▲

ACCOUNTS



Company	Account	Primary
All Values (16)	All Values (40)	All Values (2)
J		
★ John Doe	Account Name	
Jake Dunn	Account Name	
Jackson Phills	Account Name	
K		
Kate Brown	Account Name	
★ Kelly Wong	Account Name	
Keane Lineman	Account Name	
L		
★ Landen Adams	Account Name	
Lee Williams	Account Name	

CONTACTS



Account	Contact
Account Name	John Doe
05/15/2020 John Doe	
Note content Lorem ipsum dolor sit amet, consectetur ligula eget dolor. Aenean mass...	
05/15/2020 John Doe	
Note content Lorem ipsum dolor sit amet, consectetur ligula eget dolor. Aenean mass...	
05/15/2020 John Doe	
Note content Lorem ipsum dolor sit amet, consectetur ligula eget dolor. Aenean mass...	

NOTES



Account: Account Name

04/15/2020

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123 space Go

Diver Platform – Future Roadmap

Business Intelligence

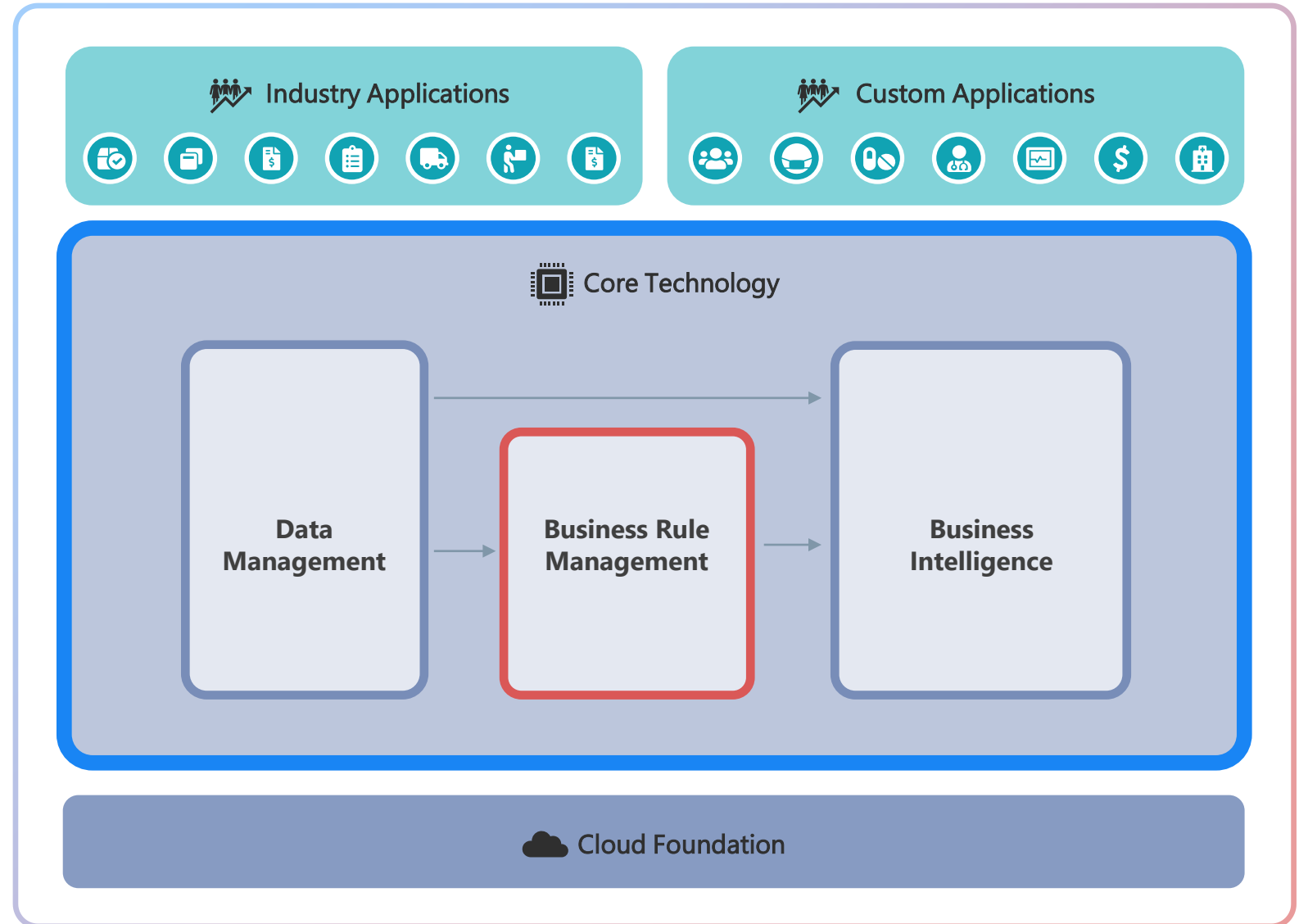
- My Library in DiveTab
- Analytical Dashboards
- Springboard
- Stamps without MF
- Control Charts
- Gateway integration enhancements

Business Rules

- **Future of Measure Factory**

Data Management

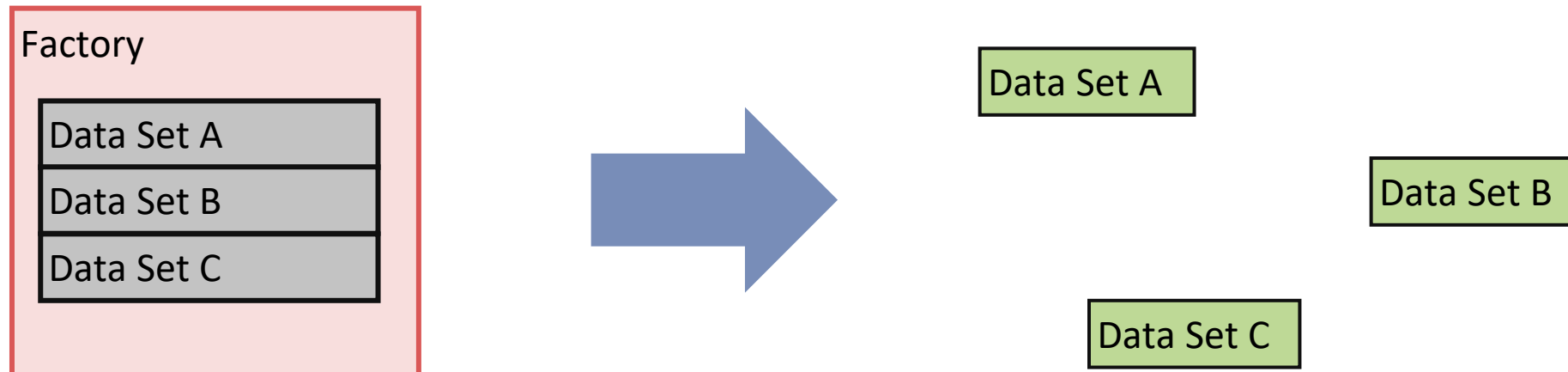
- Enhanced Spectre
- Spectre Flow Scripts



The Future of **Measure Factory**

Simplifying data management

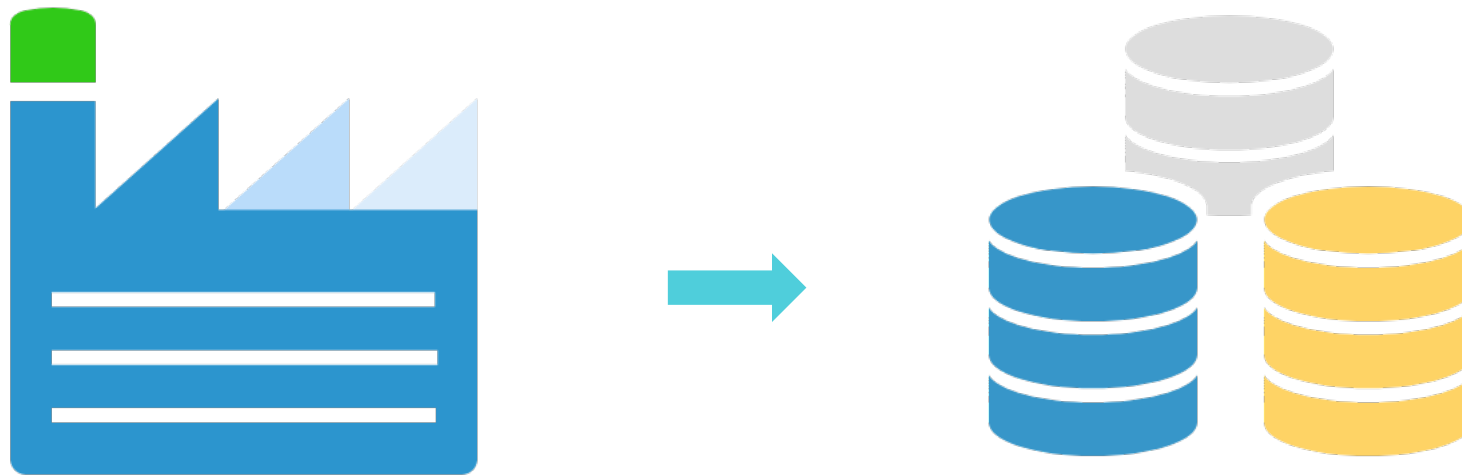
- Make the Measure Factory easier to use
- No more single huge build
- More like a regular Spectre environment



The Future of **Measure Factory**

Simplifying data management

- Measure Factory is Data Management
- Requires a management database rather than scattered files
- Think of “building a cBase” as “importing data”



Diver Platform – Future Roadmap

Business Intelligence

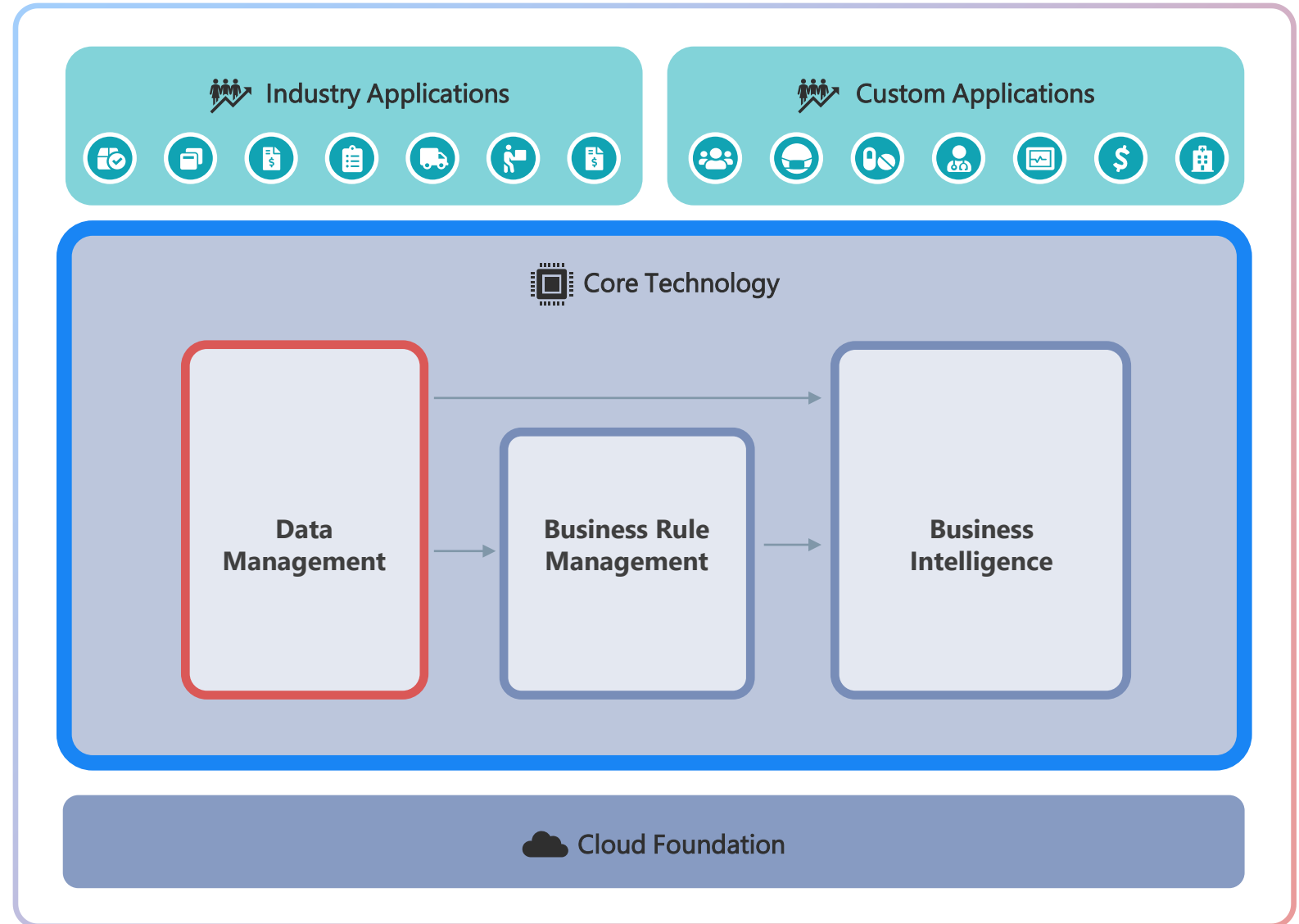
- My Library in DiveTab
- Analytical Dashboards
- Springboard
- Stamps without MF
- Control Charts
- Gateway integration enhancements

Business Rules

- Future of Measure Factory

Data Management

- **Enhanced Spectre**
- Spectre Flow Scripts

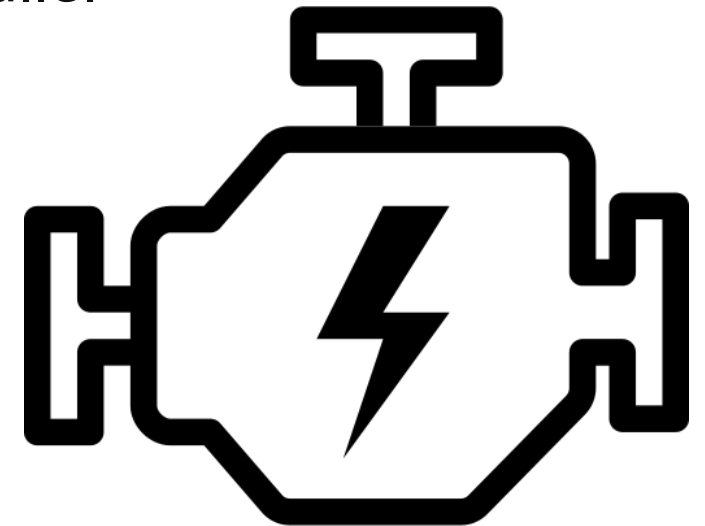


The Future of Spectre

Faster, more parallel, improved caching

“DFG” project (stands for Data Flow Graph)

- Turns a dive or build into a graph of low-level operations
- Runs multiple graphs at the same time, in parallel
- Optimal performance at scale
- Cache intermediate steps
- Improve data development experience





The Future of Spectre

Faster, more parallel, improved caching

Example use cases

- DivePort dashboard with many Indicator and Measures Portlets
- “Instant” builds after making small changes

Diver Platform – Future Roadmap

Business Intelligence

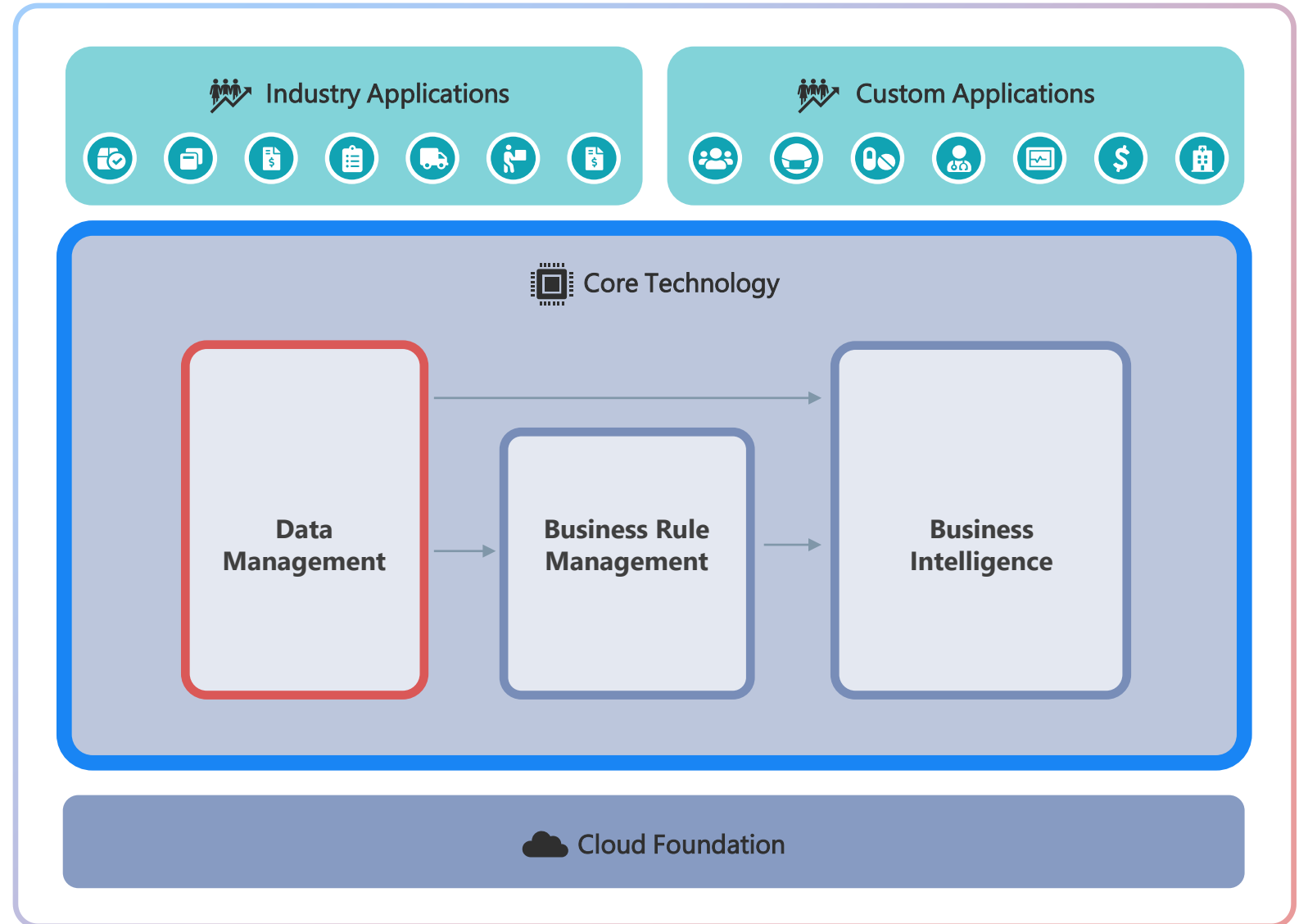
- My Library in DiveTab
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- Gateway integration enhancements

Business Rules

- Future of Measure Factory

Data Management

- Enhanced Spectre
- **Spectre Flow Scripts**



Flow Scripts

Integrator-like data flow language for Spectre

Edit in a graphical interface
Similar to dive and build scripts, but:

- Multiple outputs
- Separate and split flows
- Explicit nodes
- Comments
- Disabled nodes

