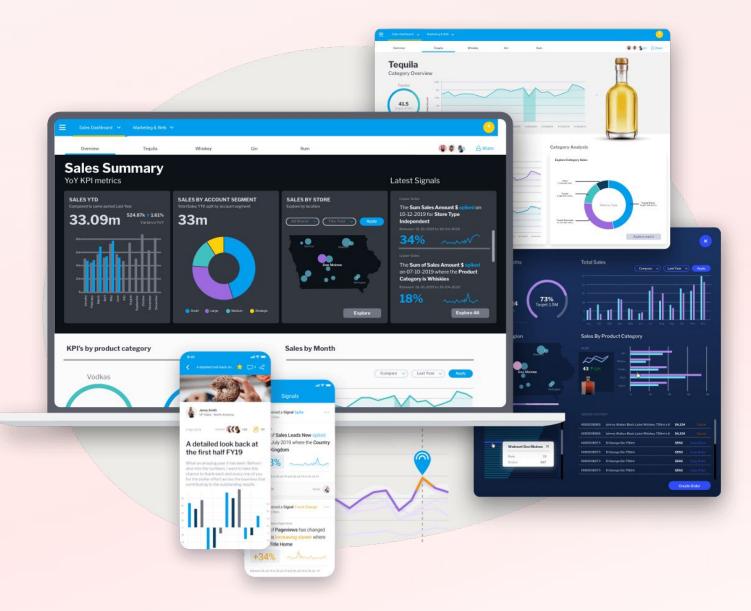
Adding Business Intelligence Analytics into RAD Studio Applications







Presenters



Embarcadero Technologies

Stephen Ball Pre-sales Director stephen.ball@embarcadero.com

Presenters



Stephen Ball **Pre-sales Director Embarcadero Technologies** stephen.ball@embarcadero.com



Antonio Zapater **Pre-sales Consultant Embarcadero Technologies** antonio.zapater@embarcadero.com

Agenda

What is a BI platform?

Quick Architectural Wins

Benefits of BI Integration

Web / Dashboard / Open Innovation

OEM Integration

Pre-build / Deploy / Remote and local capabilities

Code Sample

What is a Business Intelligence?

... is the process of creating from raw data actionable Insights to support the decision making processes.



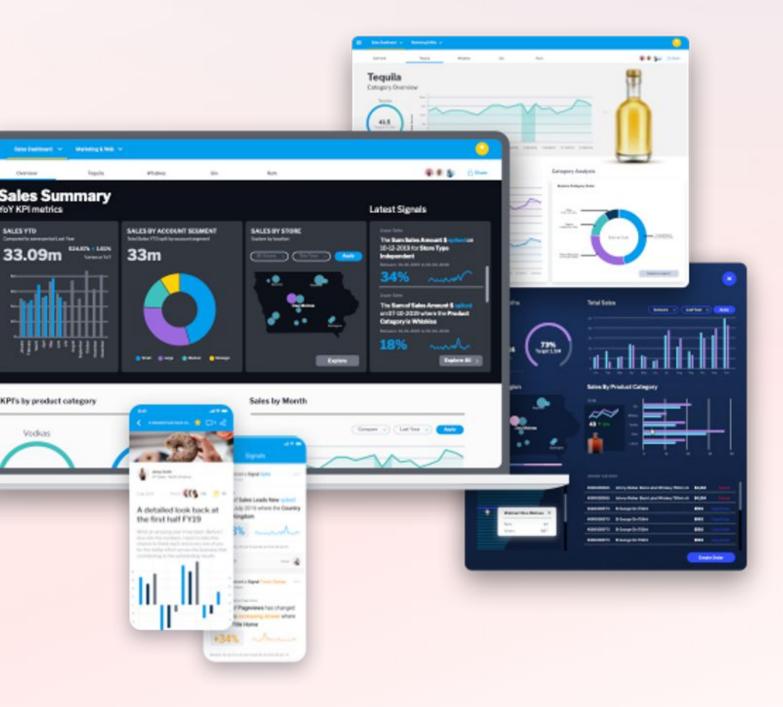


What is a B.I. Platform?

BI platforms enable the process of creating informed timely actionable decisions

BI Platform create BI content for users, including multiple components:

- mechanisms to connect to data sources
- the ability to capture the business rules about data known as meta-data
- the ability to securely generate data queries usually through a drag and drop interface
- a variety of ways to present data queries, for example as reports, charts, dashboards and more
- other features that enable distribution of reports, automated identification of insights using intelligent algorithms, natural language capabilities for asking questions of data or explaining identified insights
- flexible APIs to enable BI content to be embedded directly into applications



Automated Automated Discovery

Business metadata used to detect trends automatically, making timely actions possible



Year to date overview



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185



Total Roi 64M

Returned 1,147

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Latest Signals

Average usd price started a prolonged spike on 03-05-2020 for bcp_brands

+1.7k%

Sum Count commenced a prolonged spike on 07-05-2020 for user_tags OTC

+765%

Sum Count stepped down on 01-07-2020 for user_tags OTC





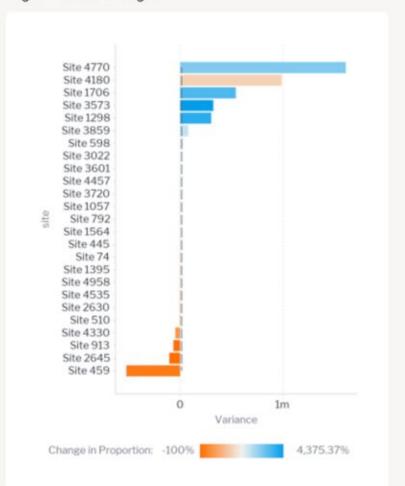
Explore all

Automated Automated Discovery

A.I. driven deep insight as you need it automatically generated by the system.

Returned Product Management

Variance by site Higher values are good



C Latest Signals

Average usd price started a prolonged spike on 03-05-2020 for bcp_brands

site is the second most significant variable that explains difference in Sum quantity This chart measures variance of Sum quantity by site highlighting the relative change in contribution between Week Start Date (02/02/2020 to 29/02/2020) and (01/03/2020 to 28/03/2020)

1.7k%

 The largest variance in Sum quantity by site between (02/02/2020 to 29/02/2020) and (01/03/2020 to 28/03/2020) was Site 4770 (1,610,413.00). It also had a high relative change (2025.02%) indicating that its percentage of total Sum quantity was much higher in (02/02/2020 to 29/02/2020) than (01/03/2020 to 28/03/2020).

Total positive Variance was 3,881,370.00 across all 9 site

 The increase in Sum quantity in Site 3573 between (02/02/2020 to 29/02/2020) and (01/03/2020 to 28/03/2020) was minimal (323,238.00). Interestingly it had the highest relative change (4375.37%) indicating that its percentage of total Sum quantity was much higher in (02/02/2020 to 29/02/2020) than (01/03/2020 to 28/03/2020).

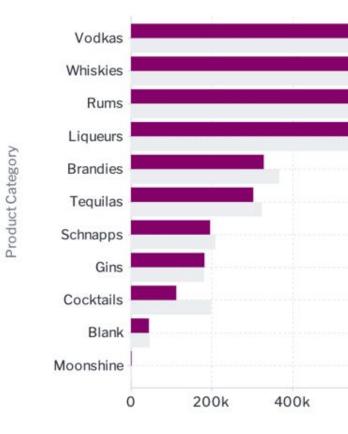
 Site 4180 was the second largest contributor to total variance in Sum quantity (986,999.00) between (02/02/2020 to 29/02/2020) and (01/03/2020 to 28/03/2020). Interestingly it had a high negative relative change (-24.74%) indicating that its percentage of total Sum quantity was much lower in (02/02/2020 to 29/02/2020) than (01/03/2020 to 28/03/2020).

Self Service Analytics True Self-Service with Guided NLQ

Sum Units Sold This Calendar Quarter compared to Last Calendar Quarter By Product Category

6.2m

6.5m -5.1% Compared to Last Calendar Quarter

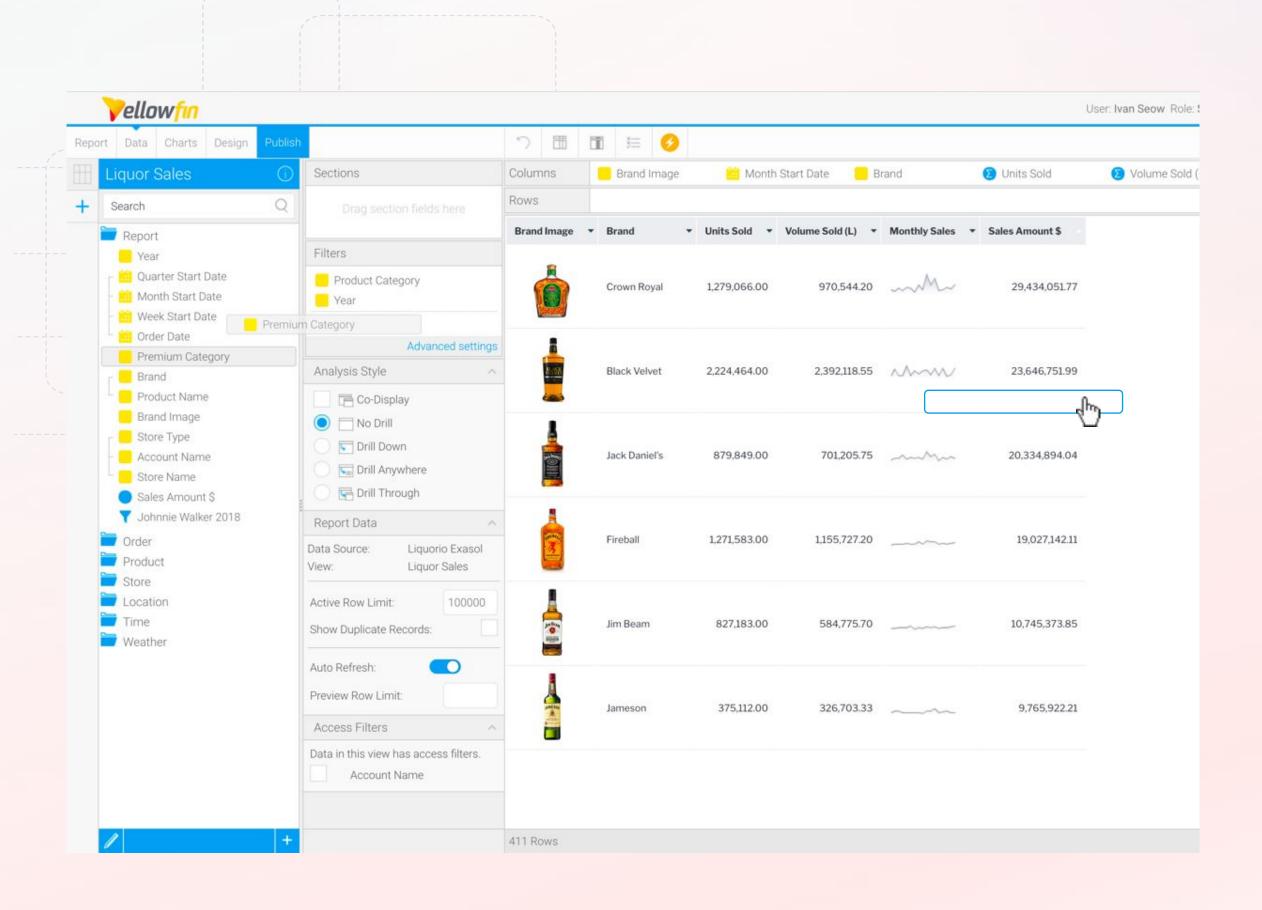


Compare Units Sold (Sum) between This Calendar Quarter

(Order Date) to Last Calendar Quarter by Product Category

Ask Question

						••••••••••••••••••	
	0001		10		10	10	2
00k	800k	1m	1.2m	1.4m	1.6m	1.8m	2m



Self Service Analytics

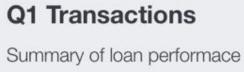
Advanced Report Authoring for Operational Reporting

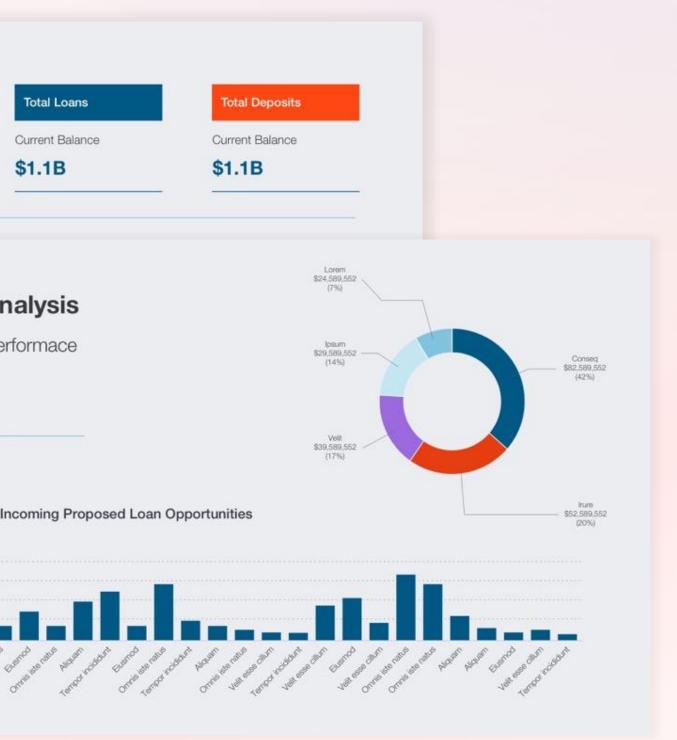


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Q1 Report

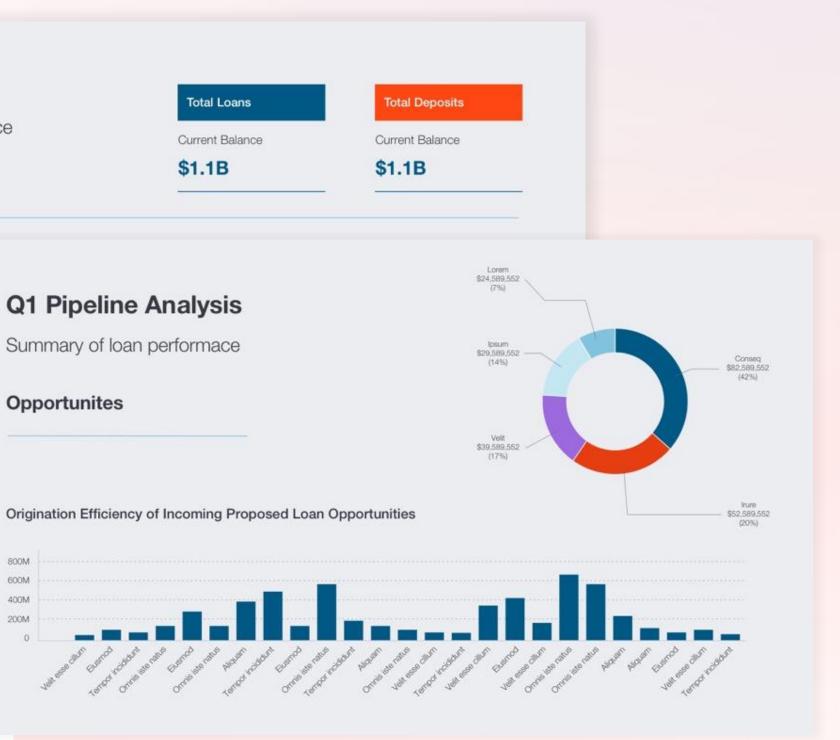
Q1 Loans **Performace Presentation** March 15





Transaction History







Why integrate a BI platform with your product?

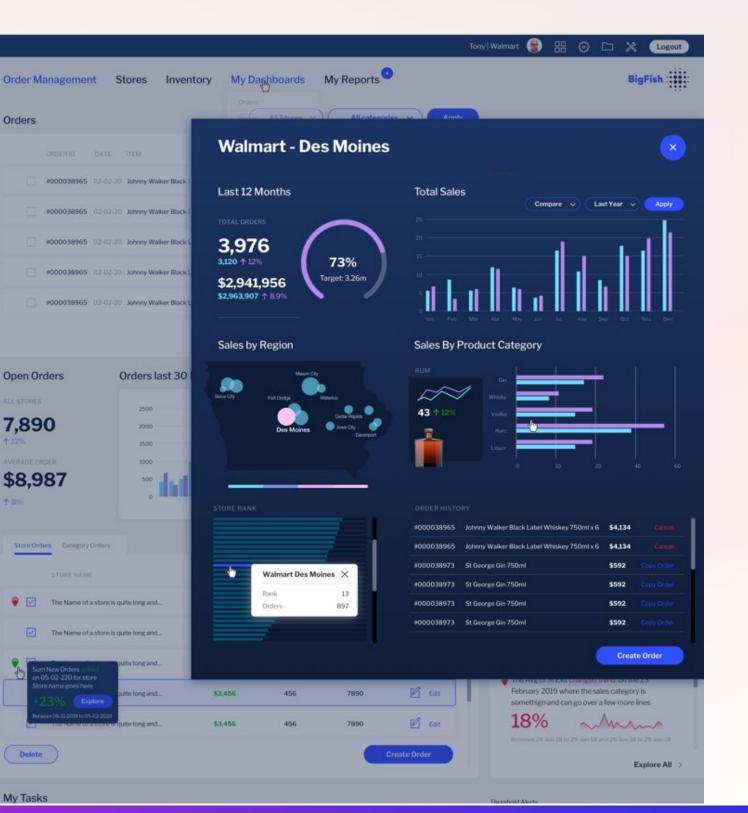
Win more deals and create competitive differentiation Software buyers are increasing looking for value add in their applications. Adding BI capability can improve the appeal of your product particularly to executive level buyers as it provides insights to help them manage their businesses better.

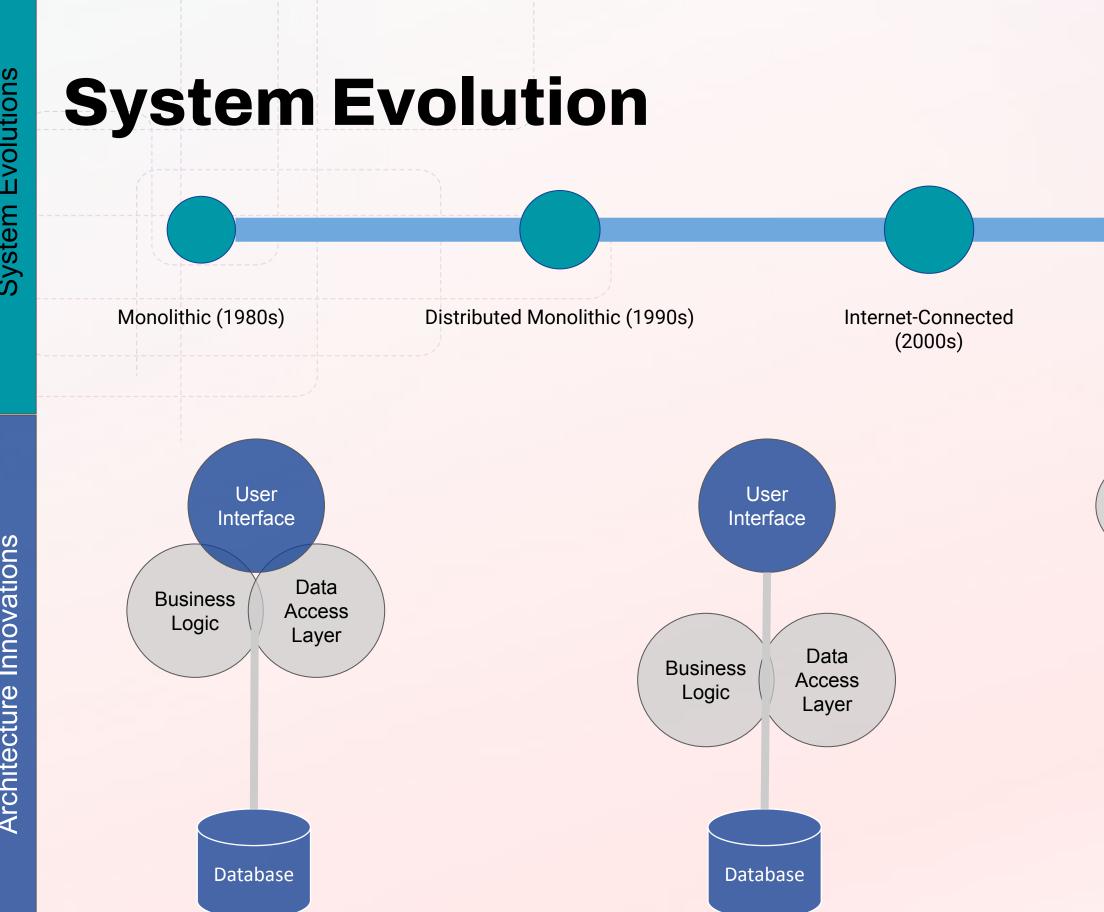
Create new revenue streams

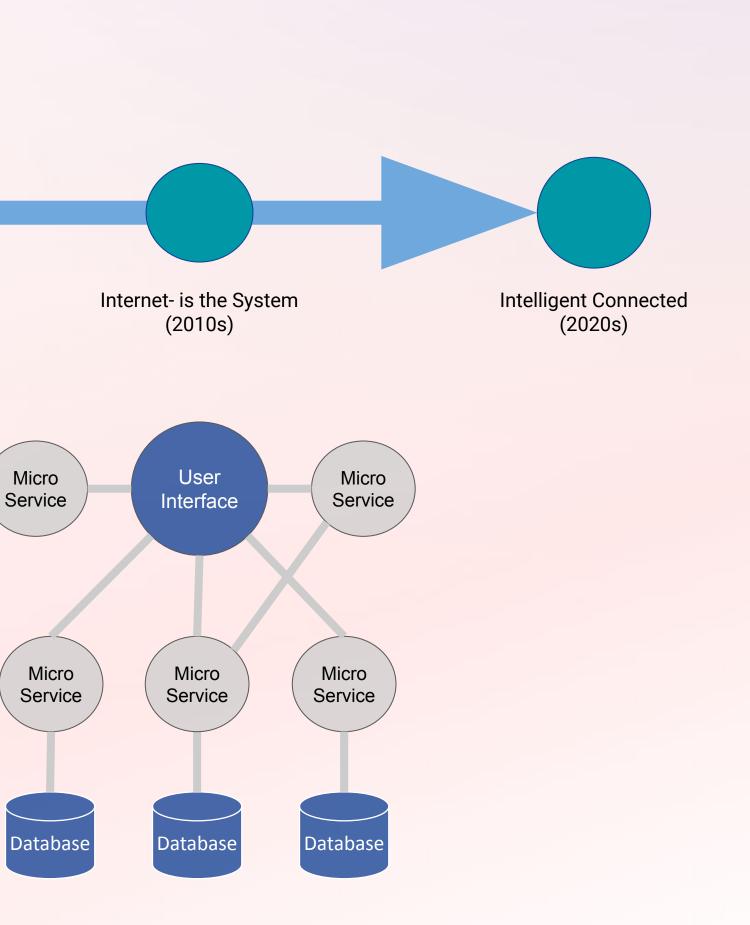
Advanced BI capabilities can be added as an optional product tier that can create new revenue streams from new and existing customers.

Save on development costs

Many product teams spend a lot of development cycles coding solutions to meet the data demands of their customers - for example building data extract, reports or even custom dashboards. BI platforms reduce the development time in building these components and some of the work can be offloaded to the client via self-service capabilities. This frees your team to work on core application features.







Intelligent Connected B.I.

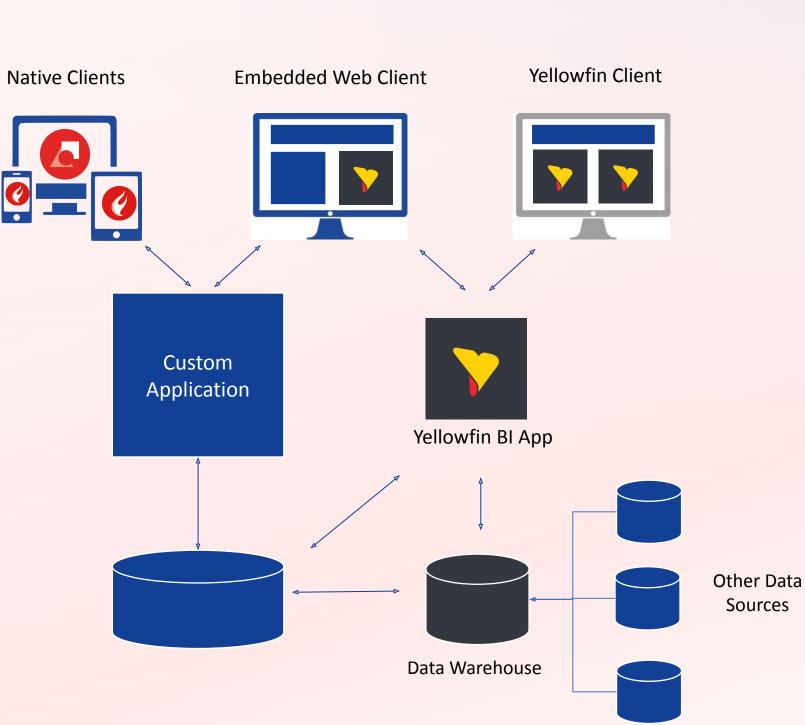
Choice of User Interface Local, Remote, Dashboards etc

Business Logic & Data Access Layer

Rapidly expand your system with fully featured BI intelligence

Data Layer

Use existing data layers, and also draw in non-structured data with data automation that you can report on inside you existing applications



Benefits of B.I. Integration

Make your users more efficient and improve the value of your product

Advanced BI capabilities provide better information and insights to your user base, enabling them to be more efficient and make better decisions. Further, integrating BI directly into your application workflows (known as contextual embedding) provides users the right information at the exact point a user needs it.

Simplify the architecture for clients

Combining BI capabilities removes the need for customers to create their own solutions, for example using data extracts to build Excel spreadsheets, or feeding your data into another BI tool.

Create greater product stickiness

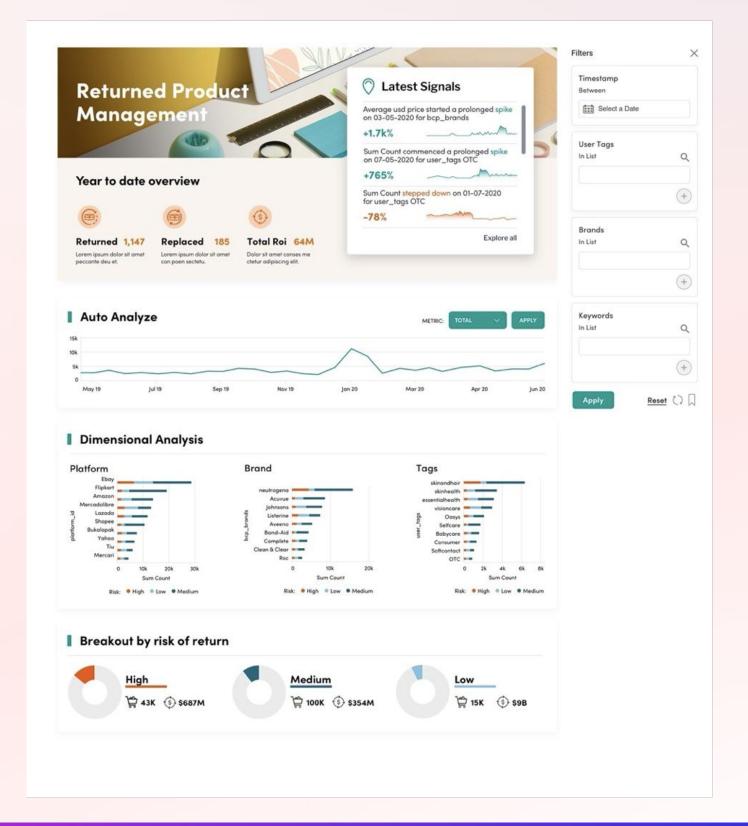
Improved value add reduces the likelihood of churn. Customers who make use of self-service capabilities of the platform by building their own content are less likely to move to another platform at the risk of throwing away their investment in your product.

Reach new user personas

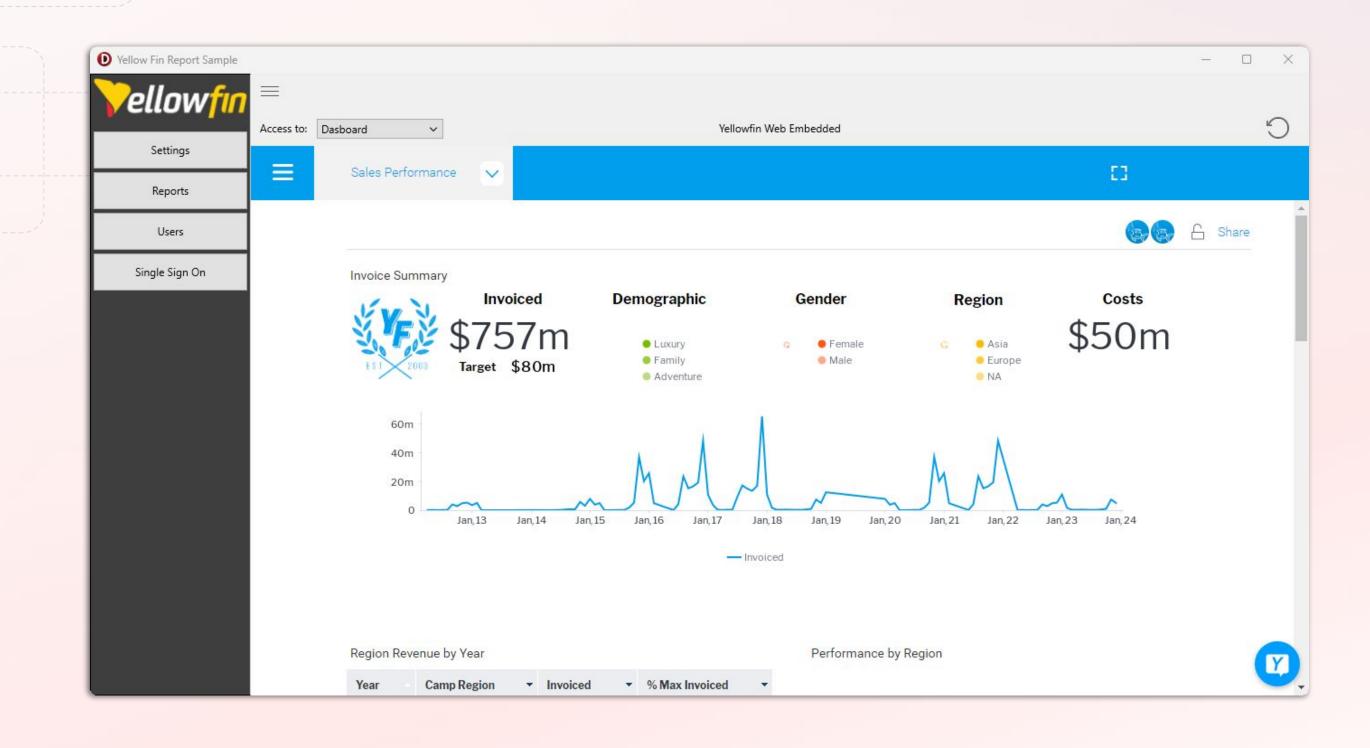
Aggregated data visible through reports and dashboards can broaden the user base of the platform to include more management and executive personas.

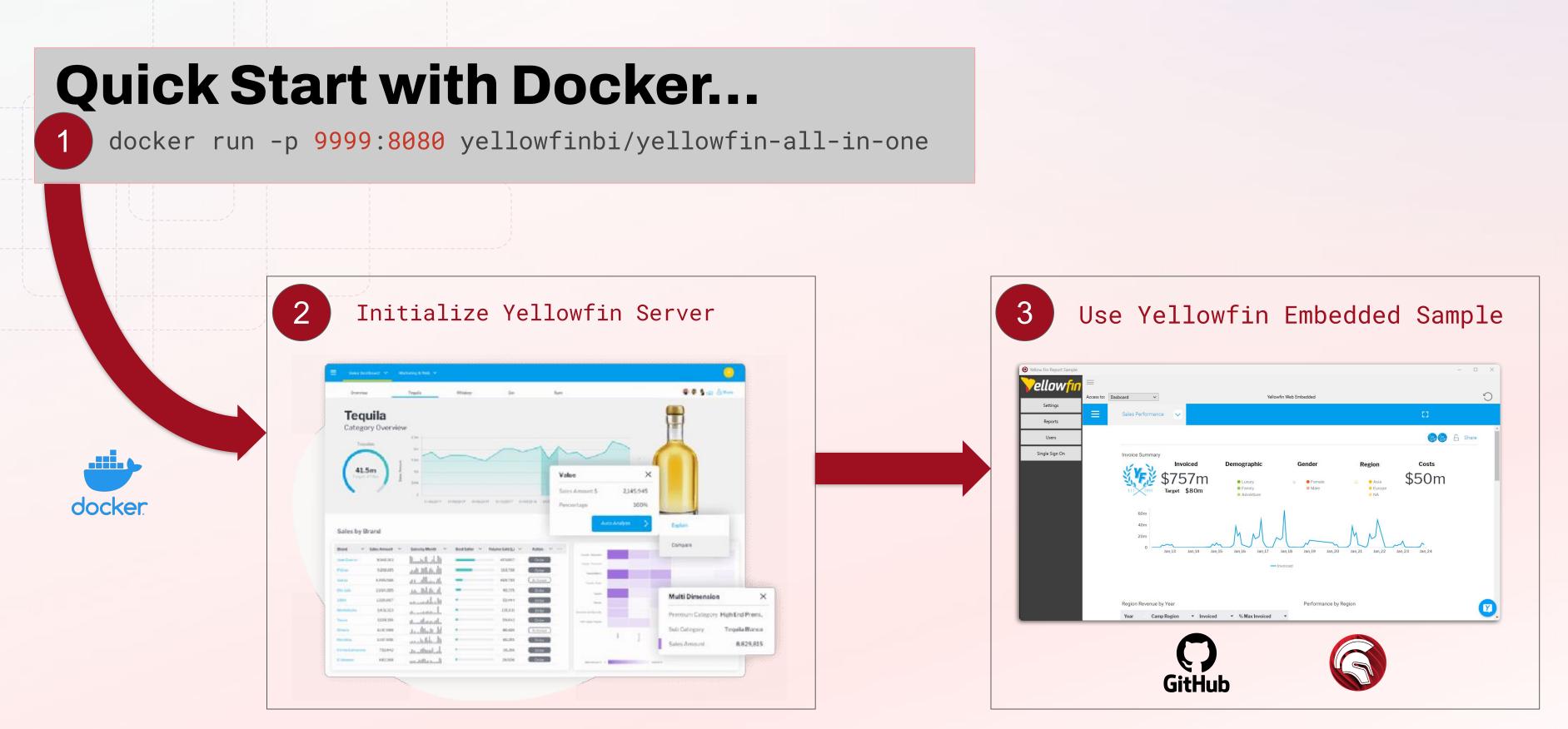
Get to ROI Faster!

Create applications or application modules fast and package in a way that increases your revenue (value) potential



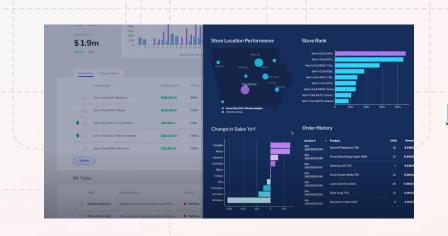
Demo







Learn More...



Embedded Analytics Overview

https://www.youtube.com/watch?v=_VRLdnfjZwk

<image>

docker

Vellowfin

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Sample code for Integrating Business Analytics, powered by Yellowfin, inside Delphi Applications.

https://blogs.embarcadero.com/sample-code-for-integrating-business-analytics-powered-by-yellowfin-inside-delphi-applications/ https://github.com/DelphiABall/Yellowfin

Deploy Yellowfin using Docker and connect it to Delphi apps

https://blogs.embarcadero.com/deploy-yellowfin-using-docker-and-connect-it-to-delphi-apps/





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