Decision optimization, meet Brücke.

"Cresco's **Brücke** is **the bridge** for data science, optimization, and end users."

- Ryan Tian, Cresco Director of Technology

Brücke is Cresco's answer to the gap between decision optimization and data science. With Brücke, you can intertwine these two practices to make a **stronger, unified analytics platform** with improved visualization capabilities and real-time optimization analysis.

Key Features

- ✓ Real Time Analytics
- ✓ Integrated Solution for Operations Research (OR)
- ✓ One-Click Access to Data Science and OR
- ✓ Audit Capabilities, Workflow and Cell–level Change Detections
- ✓ Easy Visualizations and Dashboard Building Capabilities
- ✓ Deploy on ANY Cloud against ANY Database

Benefits of Brücke

Hit the Ground Running

With zero coding required, Brücke allows users to implement decision optimization quickly into their analytics practice.

User Friendly Interface

All it takes to create tables and charts is dragging and dropping, and all features offer highly customizable layout designs.

Faster What-if Analysis

Get quick solutions for scenario analysis, with optimization requiring just one click of a button. Result data is stored in real-time.

Get AI-Ready

With Brücke, users can transform existing products into AI-ready applications.

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Use Cases

Real time scheduling with scenario analysis

Dynamic price optimization and revenue cycle optimization

Workforce scheduling and job-cost analytics

Cutting stock optimization and demand forecasting

Logistics optimization with built-in interactive dashboards for scenario planning

Spend analytics for procurement planning and optimization

Financial portfolio optimization for risk analysis

Advertisement scheduling and optimal revenue recognition plans

Budget and planning optimization

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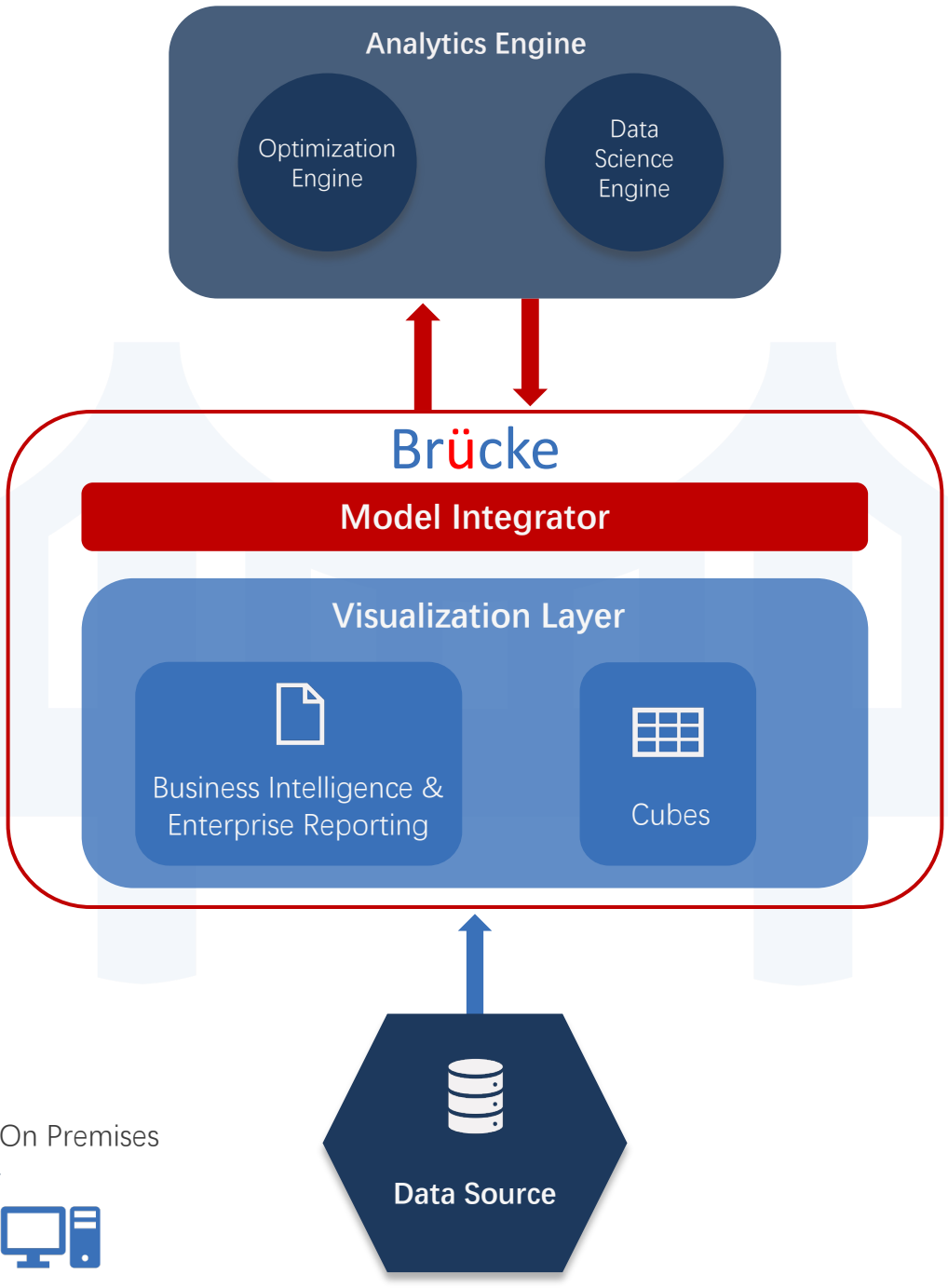
Our Model



On Cloud or On Premises

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Mock Dashboards

WORKFORCE SCHEDULING

Cut down on labor costs while ensuring operations run smoothly via scheduling optimization.

Workforce Scheduling

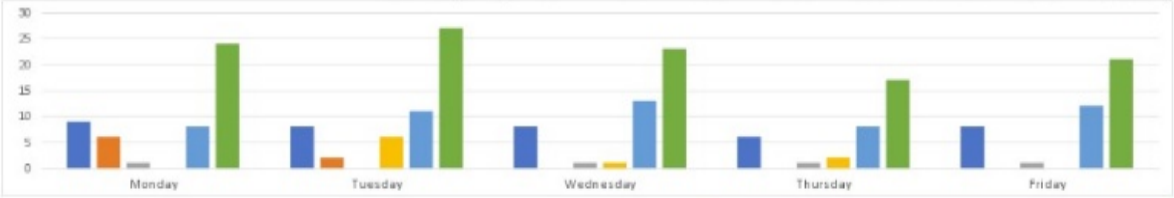
Parameters (Input)	Values
Full_Time_Percent	35
Salary_Budget	$10,000
Full_Hourly_Rate	$20
Part_Hourly_Rate	$15
Temp_Hourly_Rate	$12

Optimize

Back To Start

Workforce Demand Table (Input)						
pd	Timeslot	Monday	Tuesday	Wednesday	Thursday	Friday	Total
9:00-11:00	T1	15	10	7	6	8	46
11:00-13:00	T2	24	21	22	15	21	103
13:00-15:00	T3	10	8	10	9	9	46
15:00-17:00	T4	8	14	9	8	8	47

Workforce Assigned Table (Results)									
	Working Period	Worker Type	Monday	Tuesday	Wednesday	Thursday	Friday	Total	Total Hours	Salary
Full Time Workers	9:00 - 17:00	Full_T1	9	8	8	6	8	39	312	$6,240
Part Time Workers 1	9:00-13:00	Part_T1	6	2	0	0	0	8	32	$480
Part Time Workers 2	11:00-15:00	Part_T2	1	0	1	1	1	4	16	$240
Part Time Workers 3	13:00-17:00	Part_T3	0	6	1	2	0	9	36	$540
Temp Peak Time Workers	11:00-13:00	Temp_T2	8	11	13	8	12	52	104	$1,248
		Summary	24	27	23	17	21	112	500	$8,748



Statistics	Total	Total hours	Salary
Full Time workers	39	312	$6,240
Part Time Workers	21	84	$1,260
Temp Workers	52	104	$1,248
Summary	112	500	$8,748

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PRODUCTION PLANNING

Improve your bottom line with demand forecasting and production optimization.

	Q1 Profit	Q2 Profit	Q3 Profit	Initial Inventory	Quarter Demand
Corn Flakes	15.00	12.00	9.00	400.00	1000.00
Cheerios	14.00	11.00	8.00	300.00	800.00
Frosted Flakes	10.00	8.00	6.00	500.00	625.00
Rice Crispies	20.00	16.00	12.00	200.00	800.00
Trix	17.00	13.00	10.00	350.00	1250.00
Cocoa Pebbles	10.00	8.00	6.00	300.00	875.00

	Cost (In Cents)	O.H Qty
Corn	7.00	1000000.00
Oats	4.00	1000000.00
Rice	2.00	1000000.00
Sugar	5.00	100000.00
Salt	2.00	10000.00

	Corn Flakes	Cheerios	Frosted Flakes	Rice Crispies	Trix	Cocoa Pebbles
Corn	270.00	0.00	270.00	0.00	270.00	0.00
Oats	0.00	270.00	0.00	0.00	0.00	0.00
Rice	0.00	0.00	0.00	300.00	0.00	280.00
Sugar	20.00	10.00	120.00	40.00	100.00	110.00
Salt	2.00	2.00	1.00	2.00	1.00	2.00

	Q1 Prod	Q2 Prod	Q3 Prod
Corn Flakes	700.00	1100.00	1100.00
Cheerios	580.00	880.00	880.00
Frosted Flakes	187.00	688.00	687.00
Rice Crispies	680.00	880.00	880.00
Trix	1025.00	1375.00	1375.00
Cocoa Pebbles	662.00	963.00	962.00

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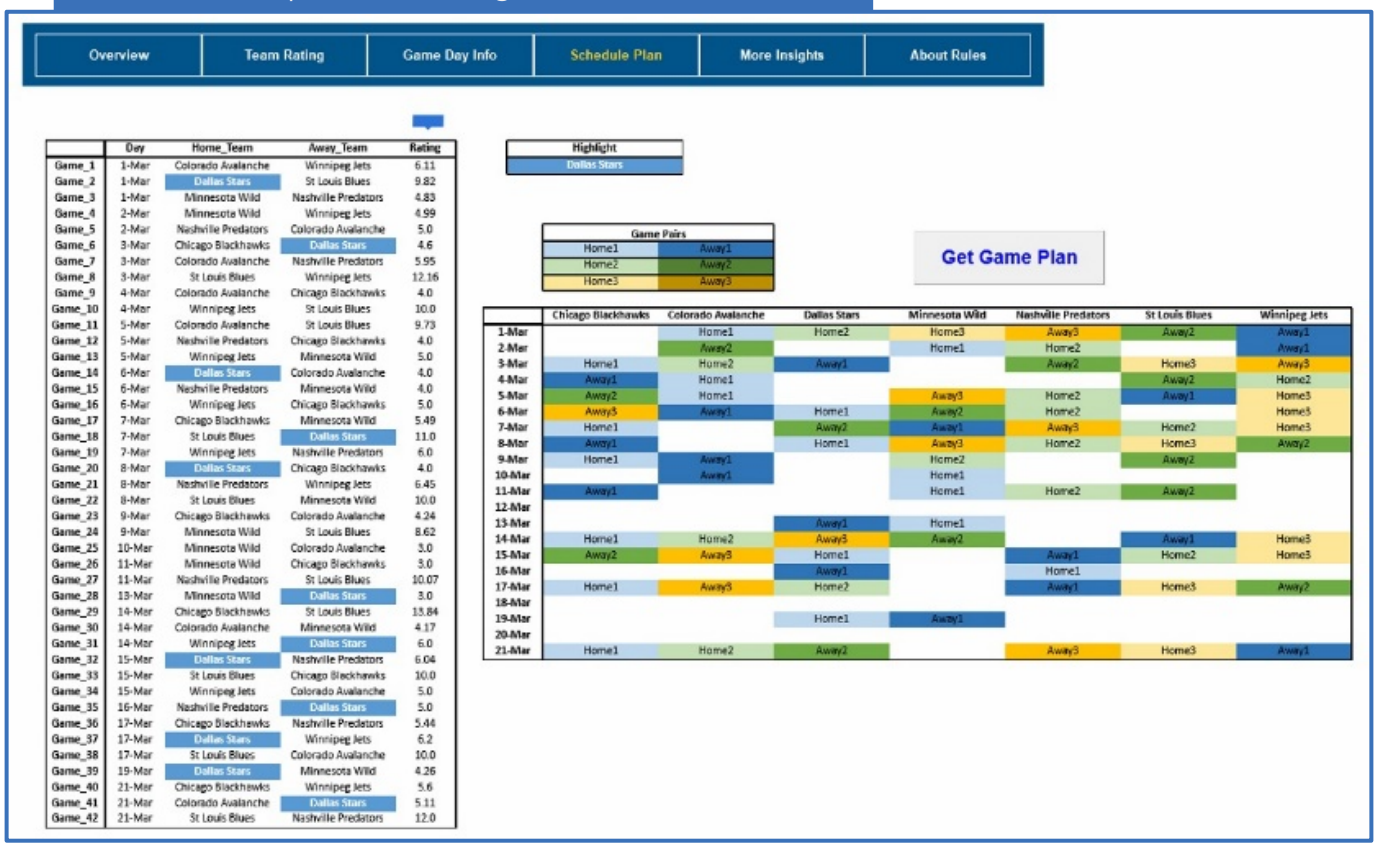
Mock Dashboards

PLANNING AN NHL SEASON

Figure out the highest grossing plan in seconds, despite scheduling restrictions.



	Day	Home_Team	Away_Team	Rating
Game_1	1-Mar	Colorado Avalanche	Winnipeg Jets	6.11
Game_2	1-Mar	Dallas Stars	St Louis Blues	9.82
Game_3	1-Mar	Minnesota Wild	Nashville Predators	4.83
Game_4	2-Mar	Minnesota Wild	Winnipeg Jets	4.99
Game_5	2-Mar	Nashville Predators	Colorado Avalanche	5.0
Game_6	3-Mar	Chicago Blackhawks	Dallas Stars	4.6
Game_7	3-Mar	Colorado Avalanche	Nashville Predators	5.95
Game_8	3-Mar	St Louis Blues	Winnipeg Jets	12.16
Game_9	4-Mar	Colorado Avalanche	Chicago Blackhawks	4.0
Game_10	4-Mar	Winnipeg Jets	St Louis Blues	10.0
Game_11	5-Mar	Colorado Avalanche	St Louis Blues	9.73
Game_12	5-Mar	Nashville Predators	Chicago Blackhawks	4.0
Game_13	5-Mar	Winnipeg Jets	Minnesota Wild	5.0
Game_14	6-Mar	Dallas Stars	Colorado Avalanche	4.0
Game_15	6-Mar	Nashville Predators	Minnesota Wild	4.0
Game_16	6-Mar	Winnipeg Jets	Chicago Blackhawks	5.0
Game_17	7-Mar	Chicago Blackhawks	Minnesota Wild	5.49
Game_18	7-Mar	St Louis Blues	Dallas Stars	11.0
Game_19	7-Mar	Winnipeg Jets	Nashville Predators	6.0
Game_20	8-Mar	Dallas Stars	Chicago Blackhawks	4.0
Game_21	8-Mar	Nashville Predators	Winnipeg Jets	6.45
Game_22	8-Mar	St Louis Blues	Minnesota Wild	10.0
Game_23	9-Mar	Chicago Blackhawks	Colorado Avalanche	4.24
Game_24	9-Mar	Minnesota Wild	St Louis Blues	8.62
Game_25	10-Mar	Minnesota Wild	Colorado Avalanche	3.0
Game_26	11-Mar	Minnesota Wild	Chicago Blackhawks	3.0
Game_27	11-Mar	Nashville Predators	St Louis Blues	10.07
Game_28	13-Mar	Minnesota Wild	Dallas Stars	3.0
Game_29	14-Mar	Chicago Blackhawks	St Louis Blues	13.84
Game_30	14-Mar	Colorado Avalanche	Minnesota Wild	4.17
Game_31	14-Mar	Winnipeg Jets	Dallas Stars	6.0
Game_32	15-Mar	Dallas Stars	Nashville Predators	6.04
Game_33	15-Mar	St Louis Blues	Chicago Blackhawks	10.0
Game_34	15-Mar	Winnipeg Jets	Colorado Avalanche	5.0
Game_35	16-Mar	Nashville Predators	Dallas Stars	5.0
Game_36	17-Mar	Chicago Blackhawks	Nashville Predators	5.44
Game_37	17-Mar	Dallas Stars	Winnipeg Jets	6.2
Game_38	17-Mar	St Louis Blues	Colorado Avalanche	10.0
Game_39	19-Mar	Dallas Stars	Minnesota Wild	4.26
Game_40	21-Mar	Chicago Blackhawks	Winnipeg Jets	5.6
Game_41	21-Mar	Colorado Avalanche	Dallas Stars	5.11
Game_42	21-Mar	St Louis Blues	Nashville Predators	12.0

	Chicago Blackhawks	Colorado Avalanche	Dallas Stars	Minnesota Wild	Nashville Predators	St Louis Blues	Winnipeg Jets
1-Mar		Home1	Home2	Home3	Away3	Away2	Away1
2-Mar		Away2		Home1	Home2		Away1
3-Mar	Home1	Home2	Away1		Away2	Home3	Away3
4-Mar	Away1	Home1				Away2	Home2
5-Mar	Away2	Home1		Away3	Home2	Away1	Home3
6-Mar	Away3	Away1	Home1	Away2	Home2		Home3
7-Mar	Home1		Away2	Away1	Away3	Home2	Home3
8-Mar	Away1		Home1	Away3	Home2	Home3	Away2
9-Mar	Home1	Away1		Home2		Away2	
10-Mar		Away1		Home1			
11-Mar	Away1			Home1	Home2	Away2	
12-Mar							
13-Mar			Away1	Home1			
14-Mar	Home1	Home2	Away3	Away2		Away1	Home3
15-Mar	Away2	Away3	Home1		Away1	Home2	Home3
16-Mar			Away1		Home1		
17-Mar	Home1	Away3	Home2		Away1	Home3	Away2
18-Mar							
19-Mar			Home1	Away1			
20-Mar							
21-Mar	Home1	Home2	Away2		Away3	Home3	Away1

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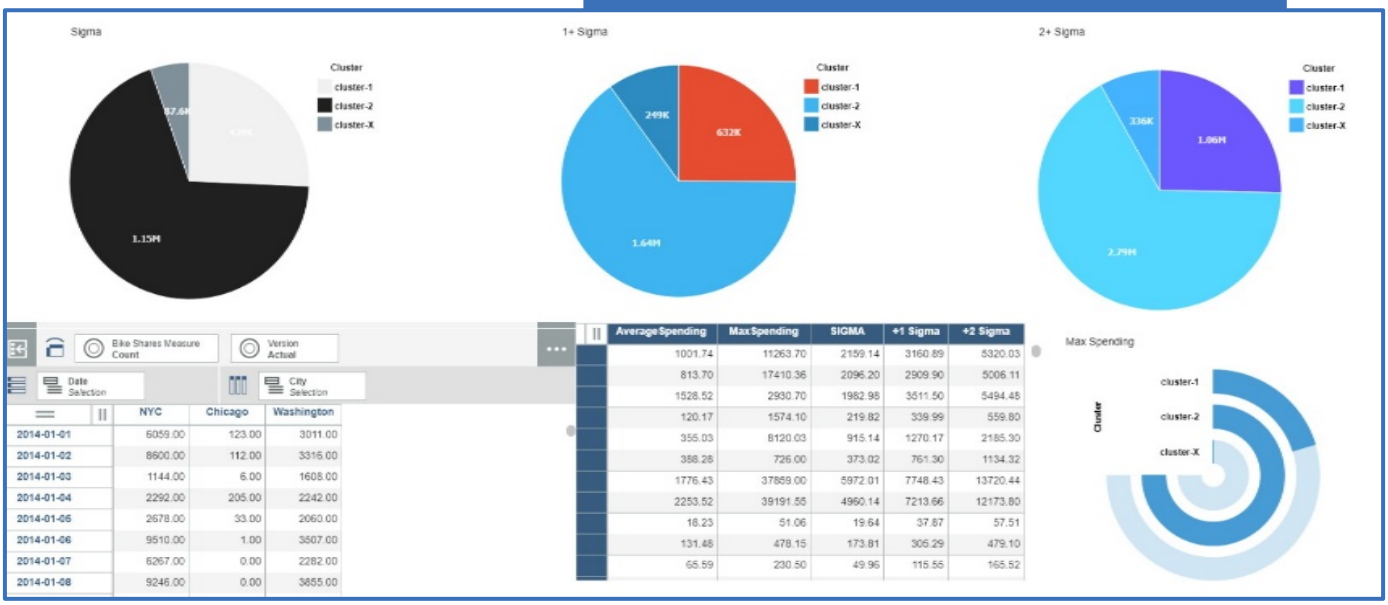
CUSTOMER SEGMENTATION

Target your customers more effectively with cluster analysis.



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