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Splunking the Shopfloor: Improving the Manufacturing Process with Splunk

Shaw

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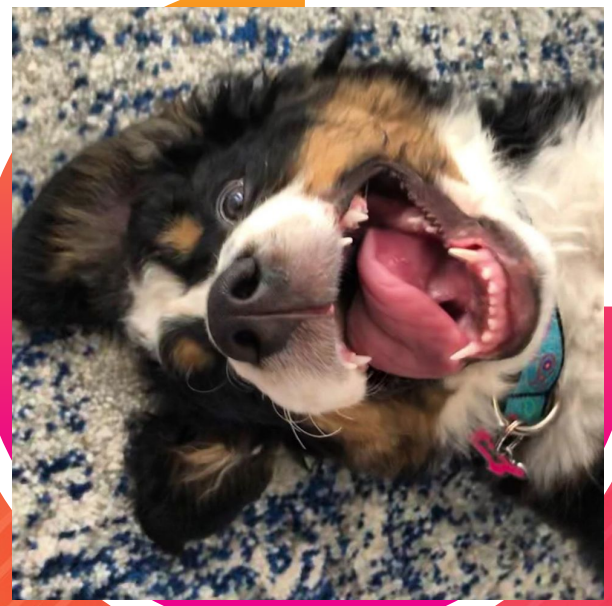

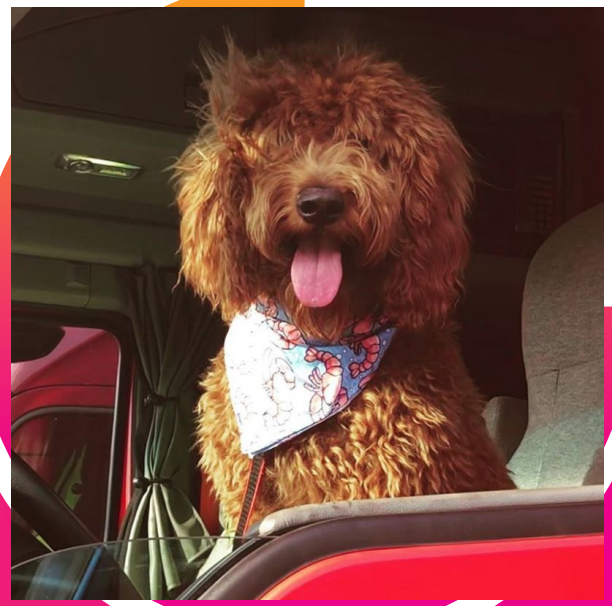

Coty Pastene

DevOps Engineer | Shaw Industries

Logan Templeton

Sr. Technical Process Engineer | Shaw Industries

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You'll find this session helpful if you are wanting to **use Splunk to add value** to your department, division, or company and want to provide company wide self-service analytics.

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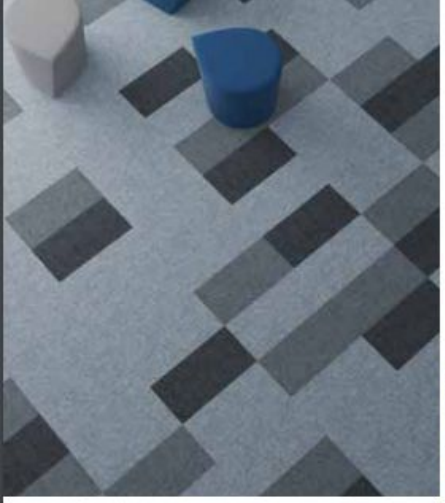
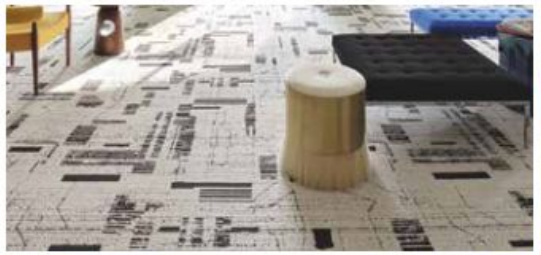
We Are More Than a Flooring Company

We are more than 20,000 individuals bound together by a common vision and united in our ability to make a positive impact on the world.





Shaw®

RESIDENTIAL FLOORING

Shaw FLOORS

ANDERSON TUFTEX™

COREtec® the Original

COMMERCIAL FLOORING

shaw contract®

patcraft.

STS

PHILADELPHIA® COMMERCIAL

SPECIALTY MARKETS

SOUTHWEST GREENS® GOLF & GRASS

shaw SPORTS TURF

shawgrass

Shaw Nonwovens

SERVICES

SPECTRA® CONTRACT FLOORING

TRICYCLE

SHAW INDUSTRIES BY THE NUMBERS

100+
manufacturing & distribution facilities in

30 states

4500
customer deliveries each day

almost
six billion
in annual sales

40,000
SKUs

PRODUCT DEVELOPMENT
Market Research & Development
Product Design
Product Stewardship Planning
PRODUCTION
Raw Materials Procurement
Sourced Products
Intermediates
Scheduling & Forecasting
Manufacturing
PRODUCT EXPERIENCE
Product Use
Product End-of-Life & Reuse
User Feedback
Service & Support
MANAGEMENT SYSTEMS, POLICIES, INITIATIVES
Shaw
KEY STAKEHOLDER RELATIONSHIPS
SALES & BRANDING
Customer Relationship Management
Marketing
Community Relations
LOGISTICS
Transportation
Distribution
Product Take-back

Unleash Greatness

The answer to what's next is contained within the diverse perspectives and ideas of our people. Candor is encouraged and within every job there is an expectation of excellence.

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Typical Manufacturing Plant Breakdown

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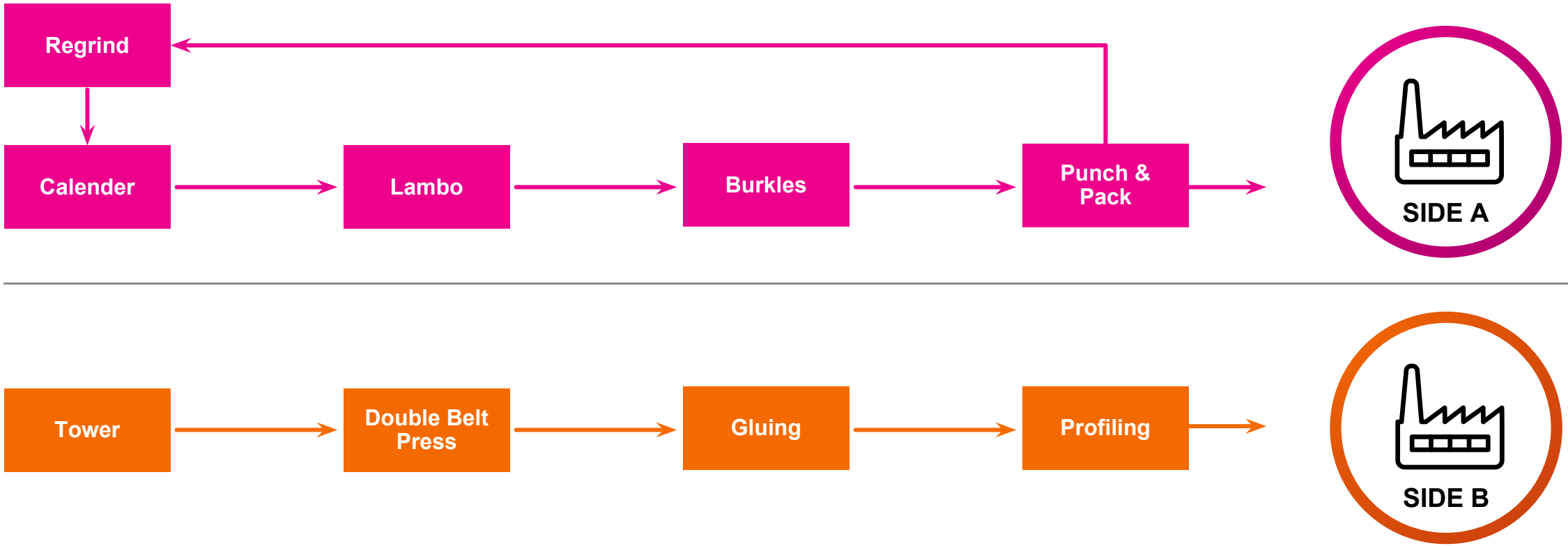
Plant RP Department Overview



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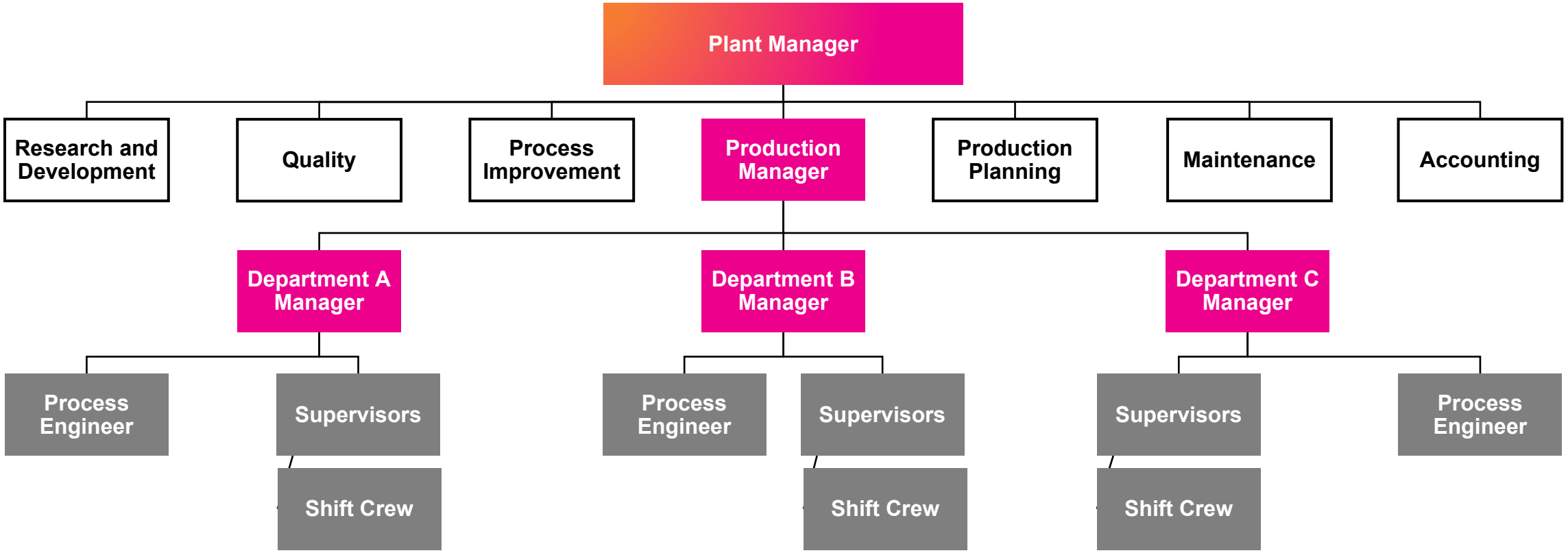
Typical Shaw Plant Org Chart



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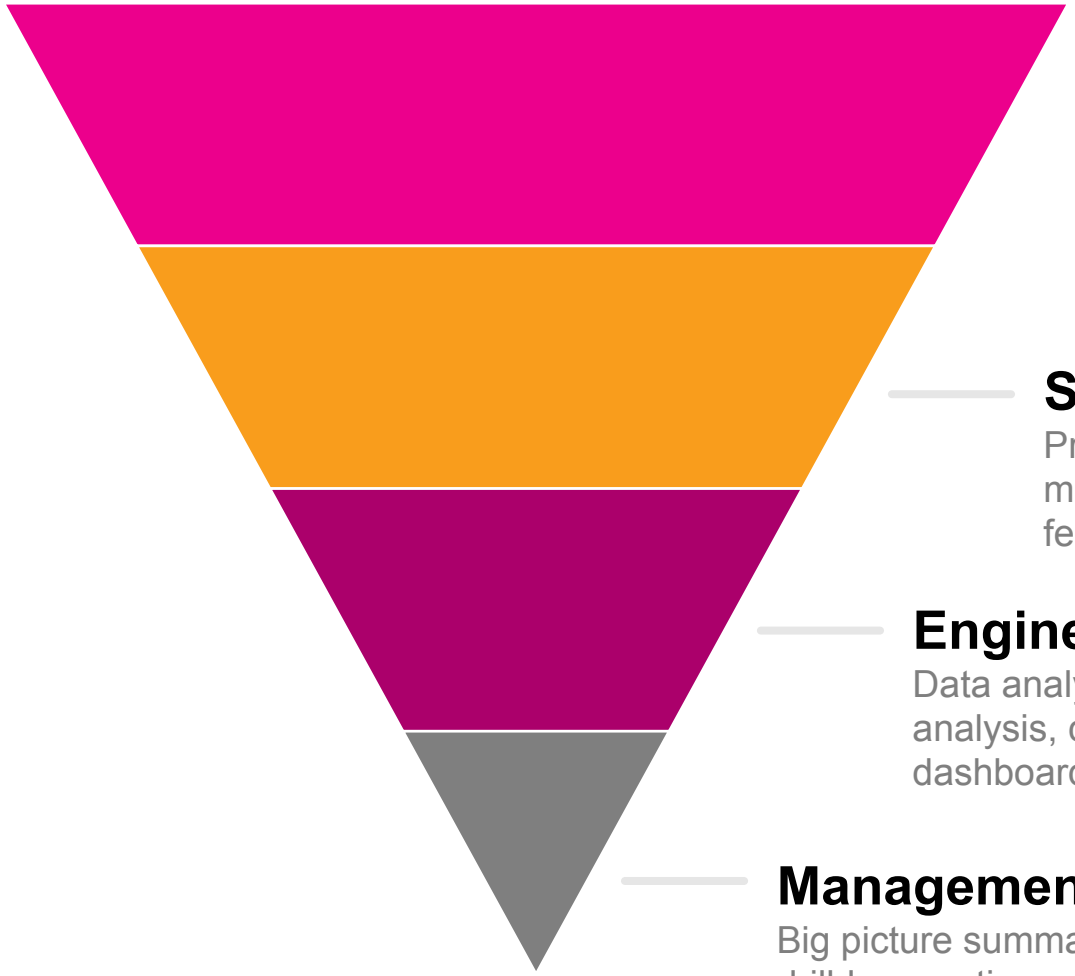
Splunk Plant User Overview

Data is filtered and manipulated to drive results at all levels of the facility

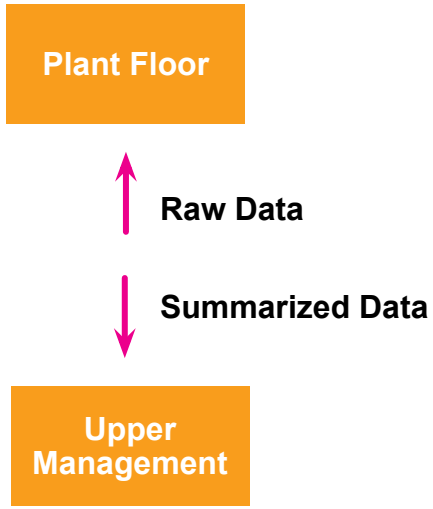


Operator
Real time line feedback, manual entry quality results, interactive dashboards at computer console setups

Supervisor
Production data, WIP storage management, machine health feedback and alerts

Engineer
Data analytics, trend analysis, content creation, dashboard management

Management
Big picture summary, drilldown options



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Our Splunk Data

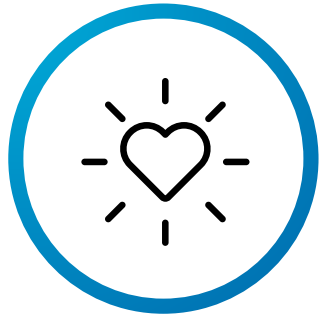
Safety Data

IIoT Data

User Generated Data

Supply Chain Data

…and more



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Diverse project mix across all divisions of Shaw Industries

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Our Journey to Self-Service Analytics

AT

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Our Journey to Self-Service Analytics

An ongoing process

Opportunities

- Wide range of users and data literacy
- Tribal knowledge is king
- Subject matter expert?
- Data was not analyzed
- Slow manual reporting
- Data lives in silos

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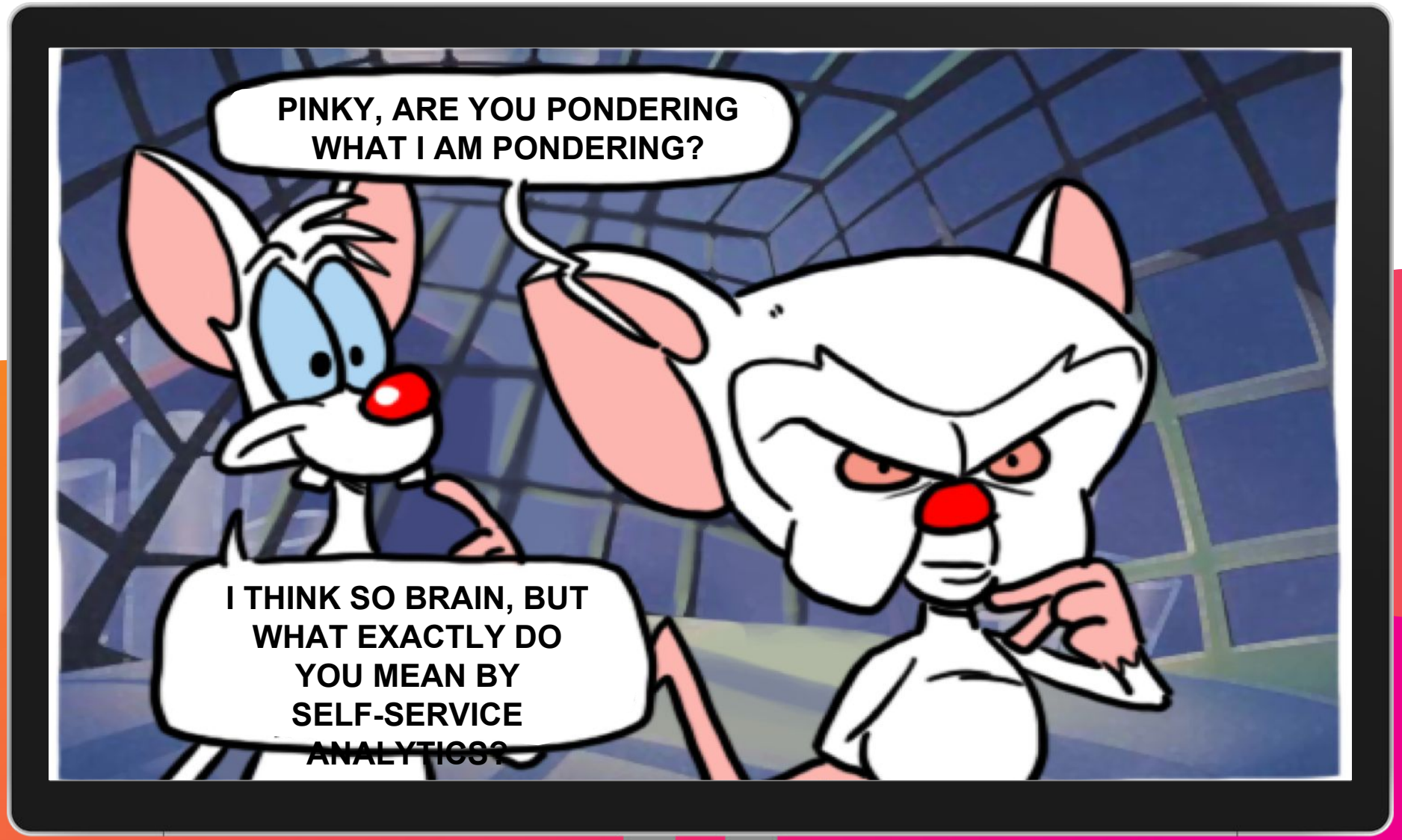

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Our Journey to Self-Service Analytics

An ongoing process

Solution

- Grassroots movement
- Create an internal forum
- 1:1 training and evangelizing
- Develop user class with our own datasets
- Provide access to everyone in the organization

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“Give me [all the] data or give me death.”

Every Shaw associate

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Splunk at Shaw by the Numbers

2017

6 5 4 20

Presen

44 diverse groups

83 Unique datasets

t 250+ Daily users

500+ indexes

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Use cases

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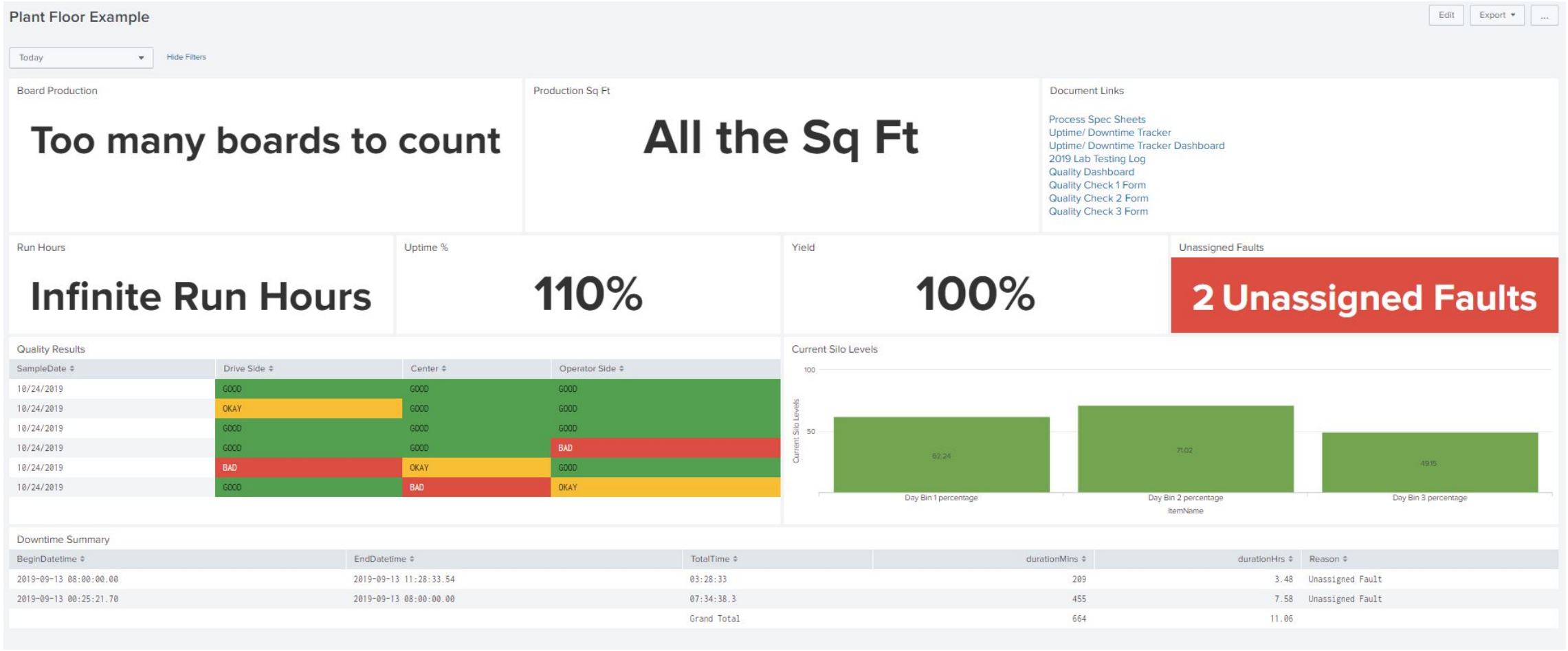
One Stop Shop Dashboard for Line Operators



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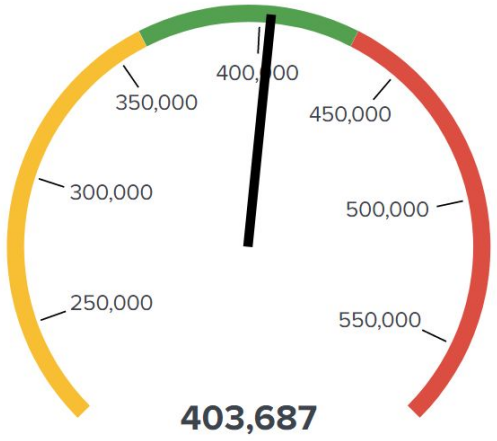
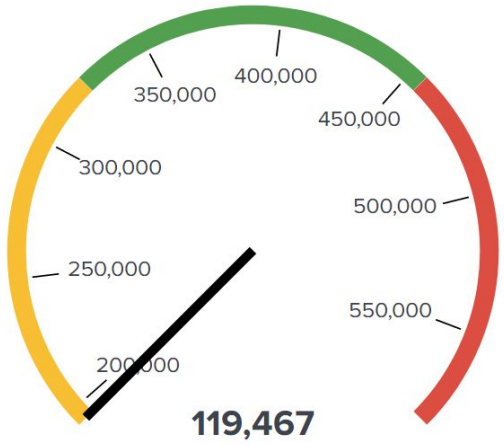
Management Level Example

Side A Boards		Side B Boards	
			
⚠ OK to Shutdown		⚠ Keep Running	
Min	360,000 Ft^2	Min	325,000 Ft^2
Max	432,000 Ft^2	Max	455,000 Ft^2

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Key Takeaways

1. Splunk is customizable for any level of user experience
2. Splunk allows the merging of data to drive real time results
3. You can do this too ☺

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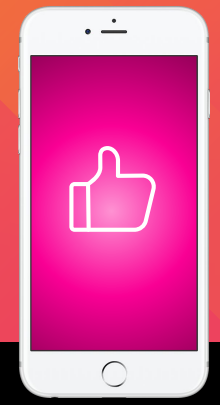
Thank You !

Go to the .conf19 mobile app to

RATE THIS SESSION