Port of Vancouver USA

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Data Governance

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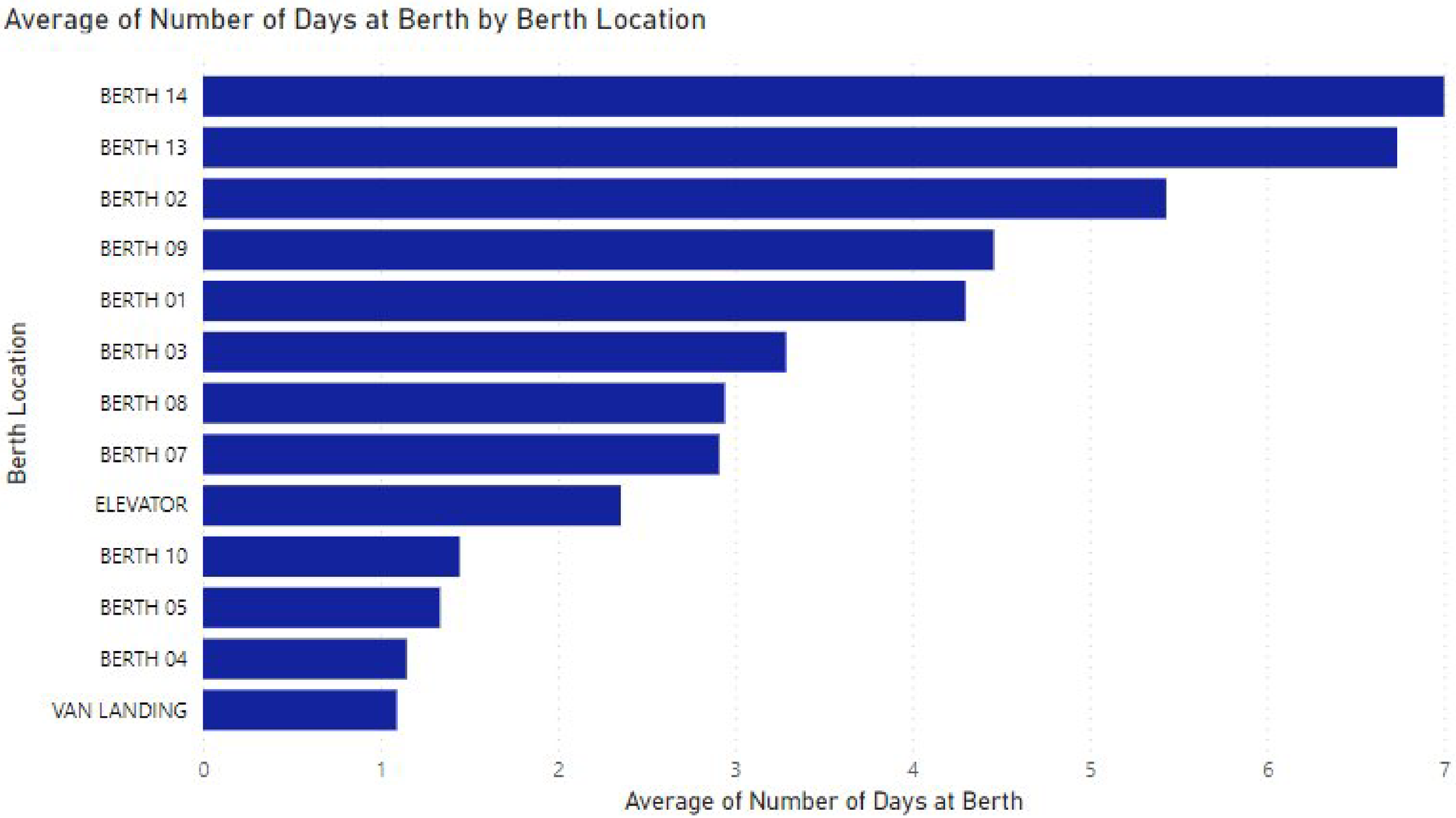
Agenda

- How Did I Get Here?
- Port of Vancouver's Strategic Plan
- Port Data Update
- Data Governance for Ports
- Data Overview
- Data Management, Governance, Maturity, and Resources
- Data Governance Mission and Vision Statements
- Data Governance Team and Implementation
- Data Maturity Assessment
- Data Governance Success
- Steps for Data Governance
- Conclusion
- Questions

How did I get here?

Assessment Example



Port of Vancouver's Strategic Plan

Finanical

GOALS

STRENGTHEN THE PORT'S FINANCIAL SUSTAINABILITY.

STRATEGIES

1. Pursue business opportunities that increase cargo volumes, maximize utilization of port assets, and achieve revenue goals.

2. Develop tools to analyze and report the financial viability of the movement of individual commodities.

3. Support a diverse revenue base through tax, industrial, marine, commercial, and grants, when strategically appropriate.

4. Continually improve the precision of the port's ten-year operating and capital forecast with key informative metrics.

PURPOSE

To ensure long-term fiscal stability that provides the ability to provide economic benefit to the community and the region.

DEVELOP AND COMMUNICATE A LONG-TERM STRATEGY FOR THE USE OF PROPERTY TAXES AND DEBT FINANCING POLICIES AND TOOLS.

STRATEGIES

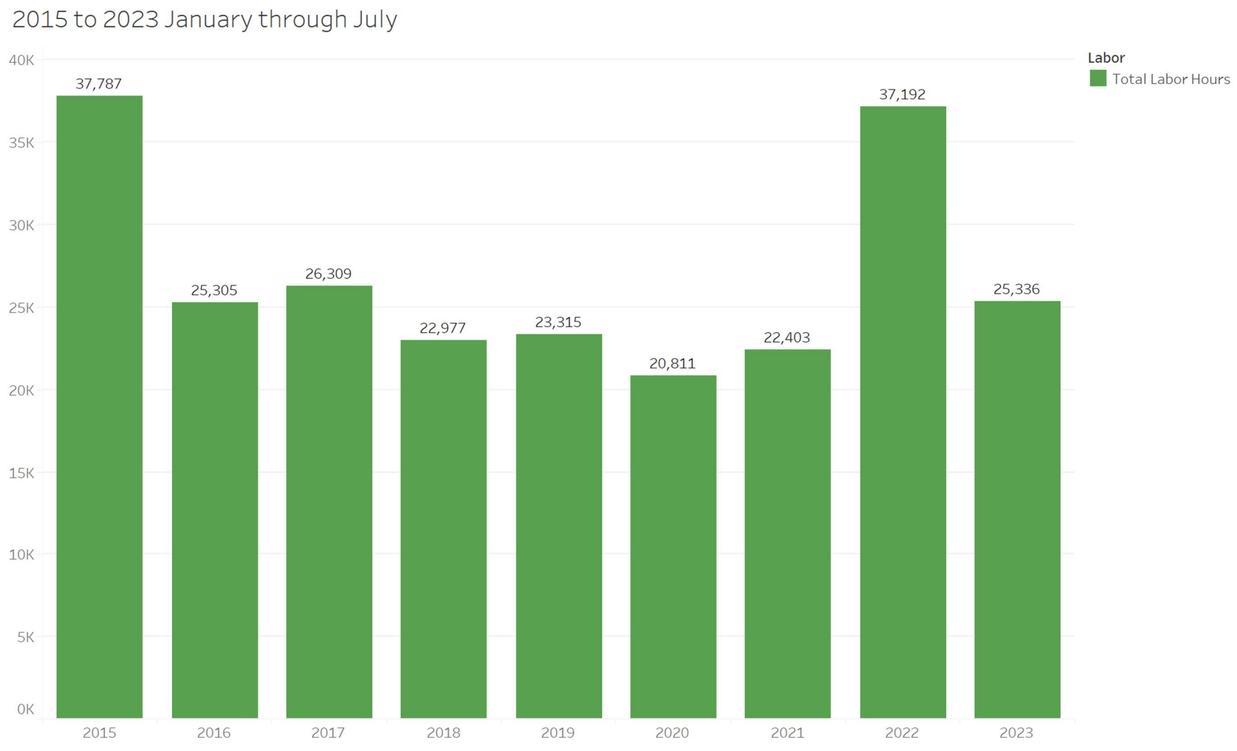
1. Identify a tax strategy that addresses long term use of taxes.

2. Develop a strategy to address debt financing options, including general obligation bonds, revenue bonds, and other financing tools.

PURPOSE

To understand the use of property taxes and other financial solutions in the port's long-term financial strategy.

Data Update



Top Twelve Commodites by Volume 2015 - 2023

Invoice Date

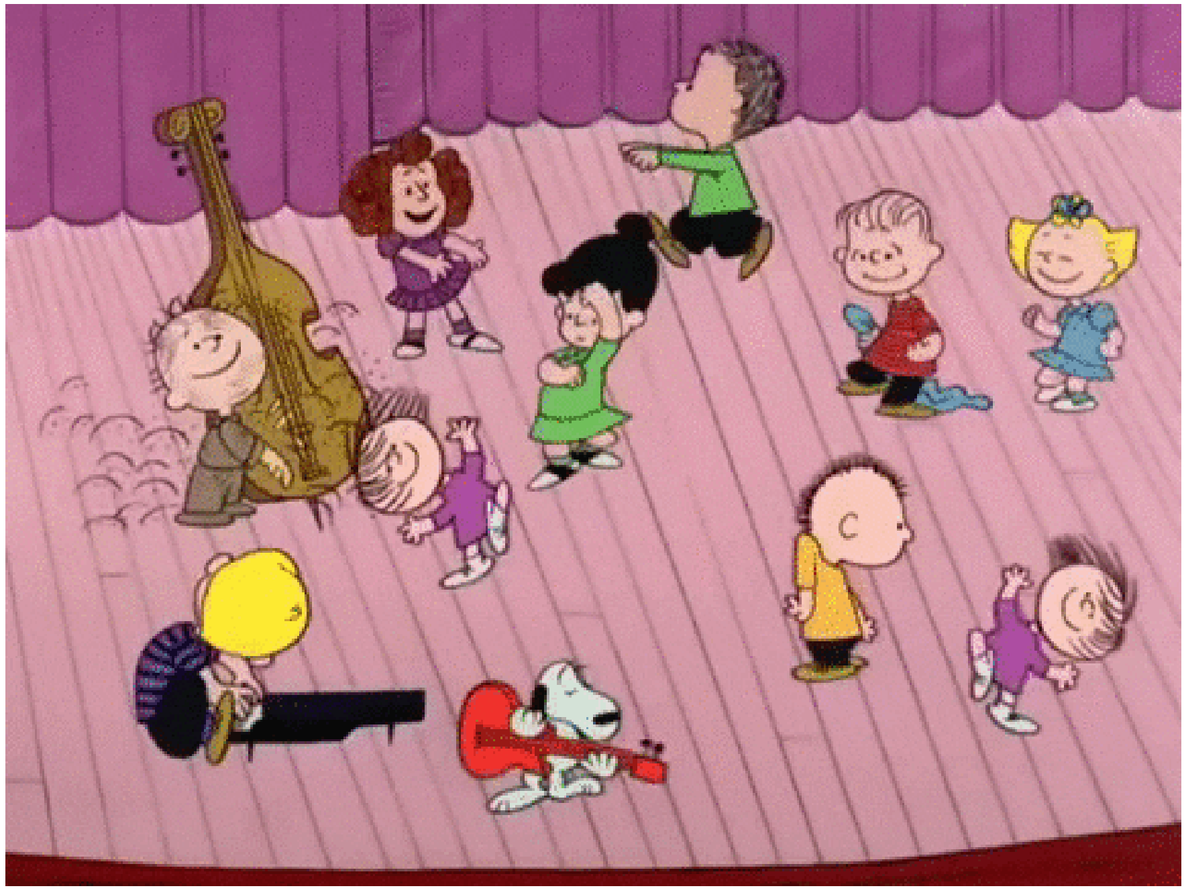
Commodity	2015	2016	2017	2018	2019	2020	2021	2022	2023
Bio-Diesel	132,448	198,280	222,565	275,305	302,804	246,222	118,656		97,733
Copper	131,562	212,585	296,038	427,861	310,959	371,117	235,407	337,120	143,419
Corn	1,195,348	1,785,033	1,264,020	1,944,052	1,084,830	892,000	860,547	986,178	756,114
Diesel	695,967	411,505	175,404	375,045	394,671	249,683	226,877		
Jet Fuel	705,050	962,686	627,244	365,888	1,034,830	844,792	754,027	1,192,782	530,248
Scrap Metal	211,113	215,283	250,394	214,774	202,359	254,484	360,173	256,887	111,054
Sodium Hydroxide	255,627	297,239	250,438	197,002	217,668	278,241	232,579	284,073	155,933
SoyBeans	986,065	1,507,817	1,444,250	1,228,383	1,907,486	1,165,631	1,667,335	1,438,722	834,779
Steel	174,281	164,693	158,709	140,314	202,721	187,003	161,960	200,078	73,295
Steel Slab	634,798	474,972	634,985	693,428	655,347	332,155	189,380	207,615	55,675
Wheat/Grain	2,358,148	2,191,737	2,603,338	2,565,461	3,205,609	3,237,541	3,113,395	2,510,891	1,388,689

Commodity Unit/Tonna..

55,675 3,237,541

Data Governance for Ports

- Utilization of AI and predictive analytics
- Assist with Cybersecurity response times
- **<u>Easier audits</u>**



Data Overview

Data refers to distinct pieces of information, usually formatted and stored in a way that is concordant with a specific purpose.

Data Management

Data management is the process of collecting, storing, organizing, and maintaining data in a structured and efficient manner.

Data Governance

Data Governance is the management, organization, and protection of an organization's data assets

Data Governance vs. Data Management

Data Governance
Ensuring data is managed

Data, information, and content lifecycle

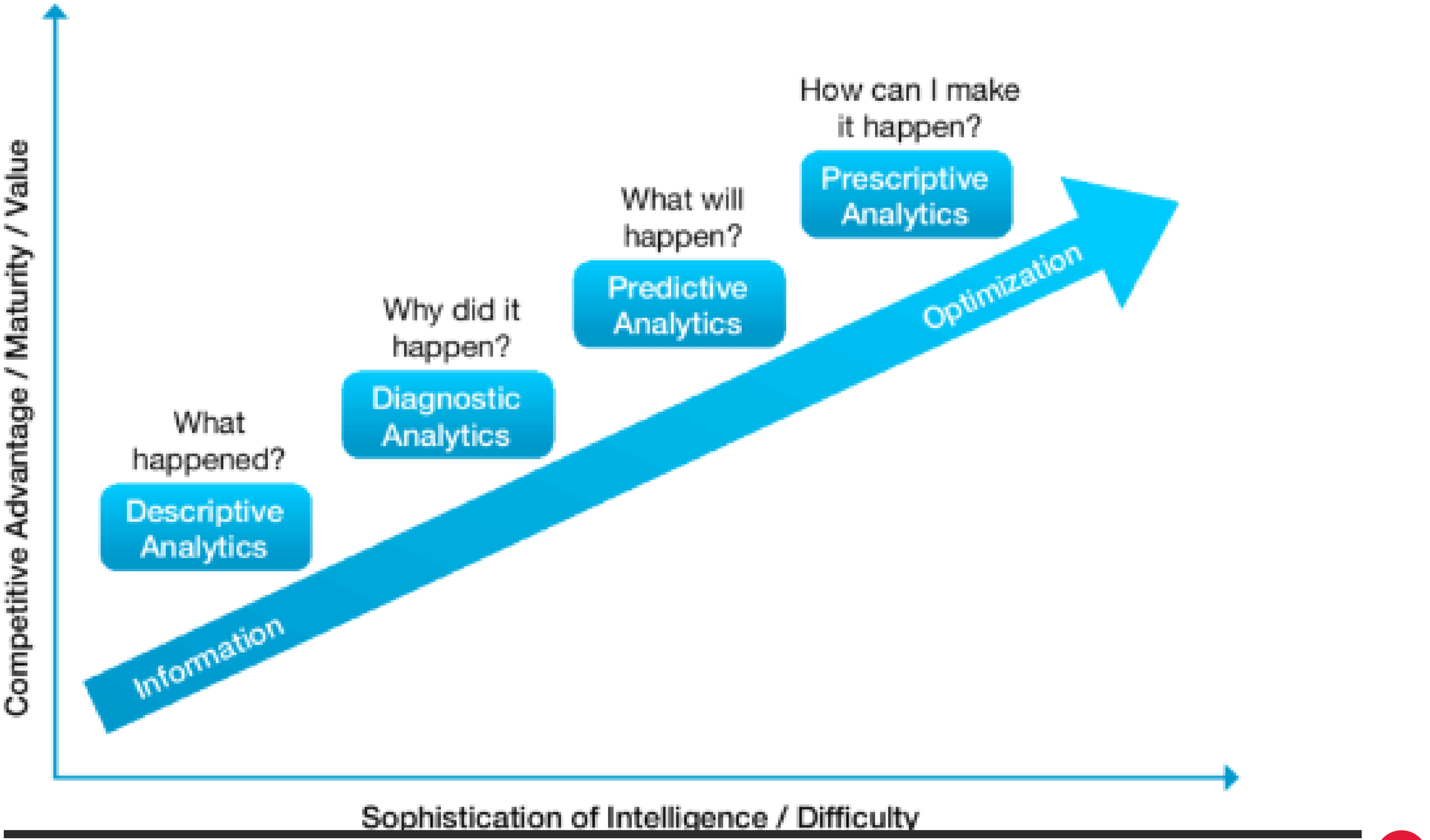
Data Management
Managing data to achieve goals

Oversight

Execution

**Sourced from Snohomish County*

Data Maturity



Data Governance Resources

Results Washington was established by Governor Jay Inslee in 2013 through Executive Order 13-04, building on a long Washington state history of leading the charge in public-sector performance management and continuous improvement.

Our Vision: Driving transparency, igniting innovation, and delivering the best results for the great State of Washington

Our Mission: As committed public servants, we strive to improve state government by approaching complex issues through collaboration, performance management, continuous improvement and by partnering with agencies delivering state services to all Washingtonians.

Data Tools

Microsoft Dynamics SL

Microsoft Dynamics 365 Business Central

CMMS

DOCKWORKS

Cloud Database Warehouse

solver

Power BI

Data Governance Team Mission Statement

- Establish comprehensive framework for managing and governing data assets
- Promote culture of data stewardship, collaboration, and accountability among stakeholders
- Enhance data quality and streamline data management practices
- Foster data sharing and collaboration
- Monitor and improve data governance practices continuously

Data Governance Team Vision Statement

- Form a robust and trusted data ecosystem
- Drive operational excellence and enable informed-decision making through data
- Ensure highest standards of data integrity, security, and accessibility
- Treat data as a valuable strategic asset to empower stakeholders
- Implement collaboration, innovation, and optimization of port operations through data-drive approaches

Data Governance Team

- Records
- Facilities
- IT
- Marine Terminal Operations
- Administration
- Procurement
- Terminal Operations
- Sales
- Human Resources

Data Governance Implementation

Current Steps:

- Establish Data Governance Team
- Identify data sources
- Appoint Records/Data Stewards
- Complete Data Maturity Assessment

Data Maturity Assessment

	Rank (Low to High)				
Current State	**1**	**2**	**3**	**4**	**5**
Data Management	Chaotic: Data management practices are disorganized, inconsistent, and lack any formal structure or strategy, leading to frequent errors, duplication, and difficulty in accessing or utilizing data	Ad Hoc: Data management practices are reactive and inconsistent, with some efforts made to organize and maintain data, but lacking standardized processes, resulting in inefficiencies and occasional data quality issues	Standardized: Data management practices are formalized and standardized, with established processes for data collection, storage, and retrieval, ensuring consistency, reliability, and accessibility of data across the organization	Optimized: Data management practices are continually improved and optimized, leveraging automation, advanced technologies, and best practices to enhance data quality, security, and efficiency, enabling timely and informed decisions	Strategic: Data management practices are aligned with organizational goals and priorities, serving as a strategic asset to drive innovation, improve operational performance with a strong focus on data governance and compliance
Data Quality/Input	Incomplete: Data is missing critical information or fields	Inaccurate: Data contains errors or inconsistencies	Partially Accurate: Data is mostly correct but may have some minor errors or discrepancies that need verification or cleaning	Accurate: Data is correct and reliable, meeting the required standards for analysis and decisions	Highly Accurate: Data is correct and extensively validated, ensuring the highest level of trust and confidence in its quality

Data Governance Success

Strategies for achieving Data Governance success:

- Endorsement and communication
- Construct a database warehouse
- Provide support and resources to teams
- Ongoing patience and persistence

Steps for Data Governance

- Inventory data sources and flows
- Ensure data is accurate and maintained
- Determine reporting needs
- Utilize free data governance resources

Conclusion

“Data is the new oil. It is valuable, but if unrefined it cannot really be used.”

-Clive Humby

Thank You