



# **Government Analytica Expertise**

Thousands of projects spread across 35 years and 40 countries



**INFRASTRUCTURE** (electricity, water, transportation, mining, etc.)



**HEALTHCARE** (medical devices, pharmaceuticals, diagnostics, informatics, etc.)



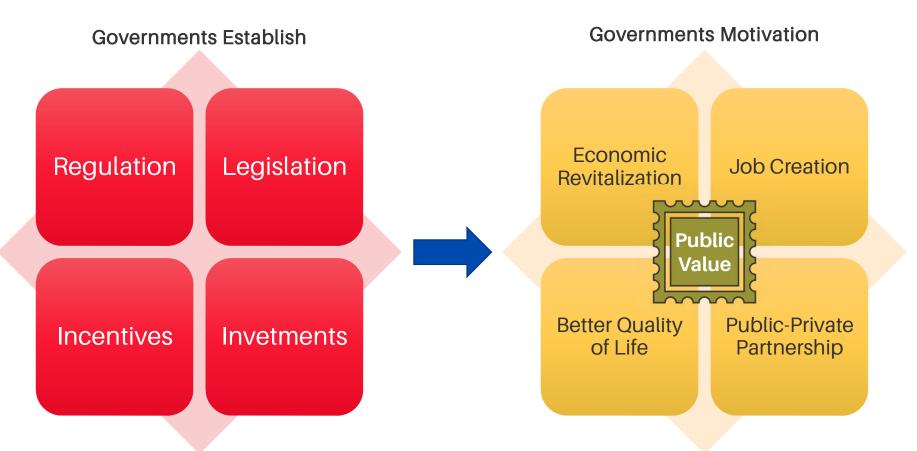
EMERGENCY PREPAREDNESS/RESPONSE (mass casualty events, pandemics, etc.)



**SAFETY & SECURITY** (public safety, national ID cards, passports, etc.)



## **Governments & Public Value**





# Agenda

- Megatrends influencing freight, transportation
- U.S. pivot to supply chain resilience
- Infrastructure Act, Chips Act,
- Analytical approaches to evaluate public policy options



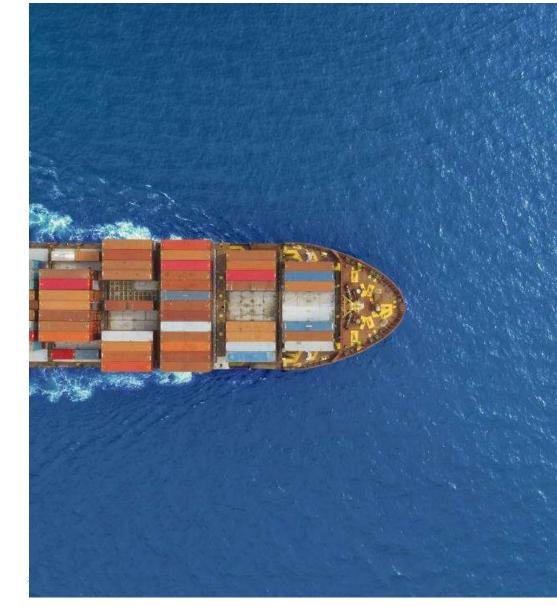






#### What does it mean for Minnesota?

Track trade policies, export/import regulations and legislation of Minnesota's major trading partners

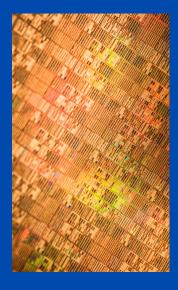




# Putting a Premium on Market Access











New Tarrifs & Tax Regimes

Incentives for On-Shoring & Re-Shoring

Technology Sharing Controls Domestically
Produced
Manufacturing
Content

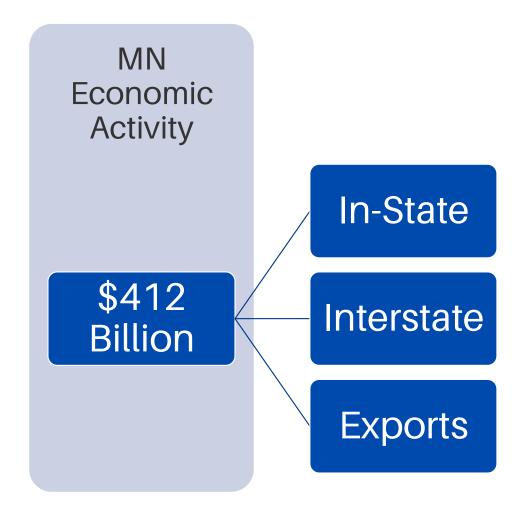
New Bilateral Free Trade Agreement Models

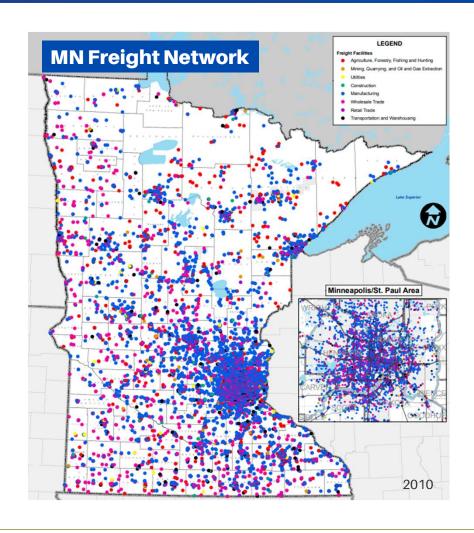


## **3 Intertwined Trends**











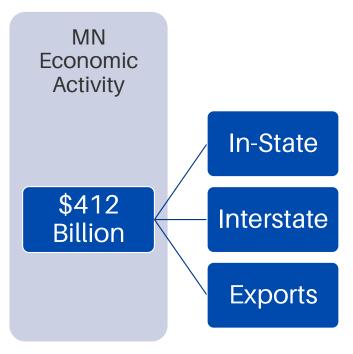


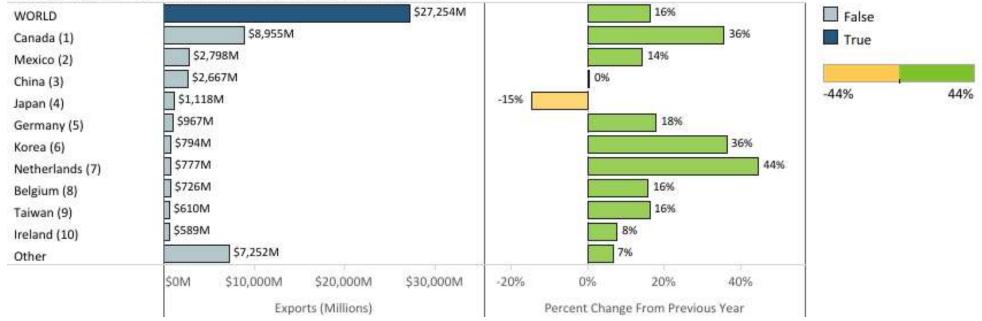
Table 4.1 Modal Usage of Minnesota's Freight-Related Industries

(NAICS) Industry	Highway	Rail	Water	Air	Pipeline
(11) Agriculture, Forestry, Fishing and Hunting				0	0
(21) Mining					
(22) Utilities					
(23) Construction					
(31-33) Manufacturing					
(42) Wholesale Trade					$\bigcirc$
(44-45) Retail Trade					
(48-49) Transportation and Warehousing					$\bigcirc$
Key: Less important	More Important				

Source: InfoUSA, 2014

# Minnesota Exports - By Geography

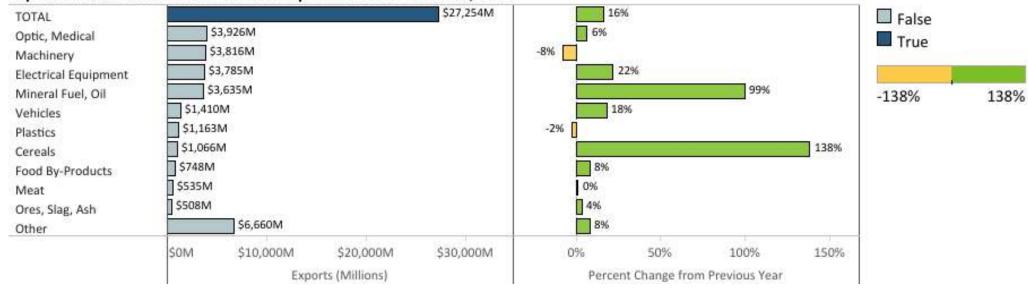
Exports and Trends for Minnesota's Top 10 Markets, 2022





# **Minnesota Exports - By Product**

Exports and Trends for Minnesota's Top 10 Products to World, 2022





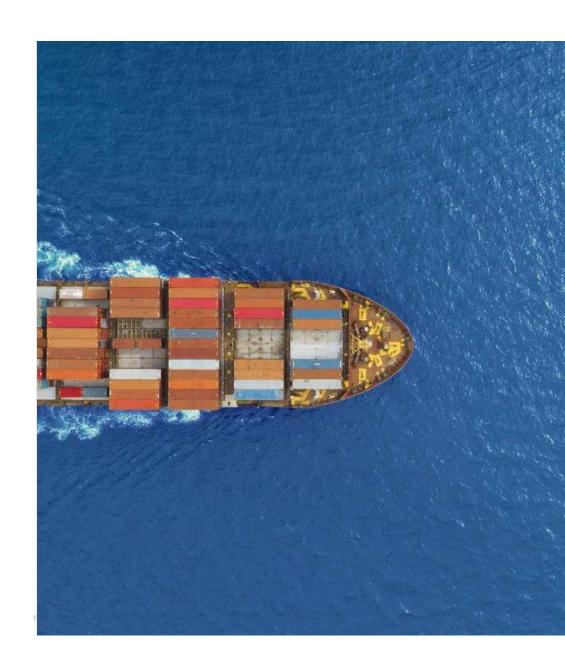
# Megatrend 2 - Governments will invest in national economic sectors with a high global competitive advantage



# Biden Administration

# Trade Policy





### Standing up for Workers' Rights

Accelerating Decarbonization and Promoting Sustainable Environmental Practices

Supporting U.S. Agriculture

**Bolstering Supply Chain Resiliency (EO14017)** 



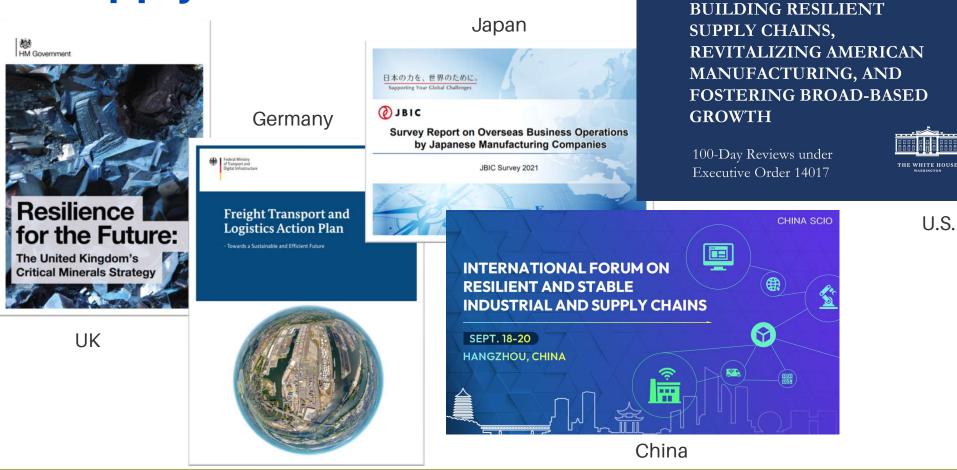
**Combatting the COVID-19 Pandemic** 



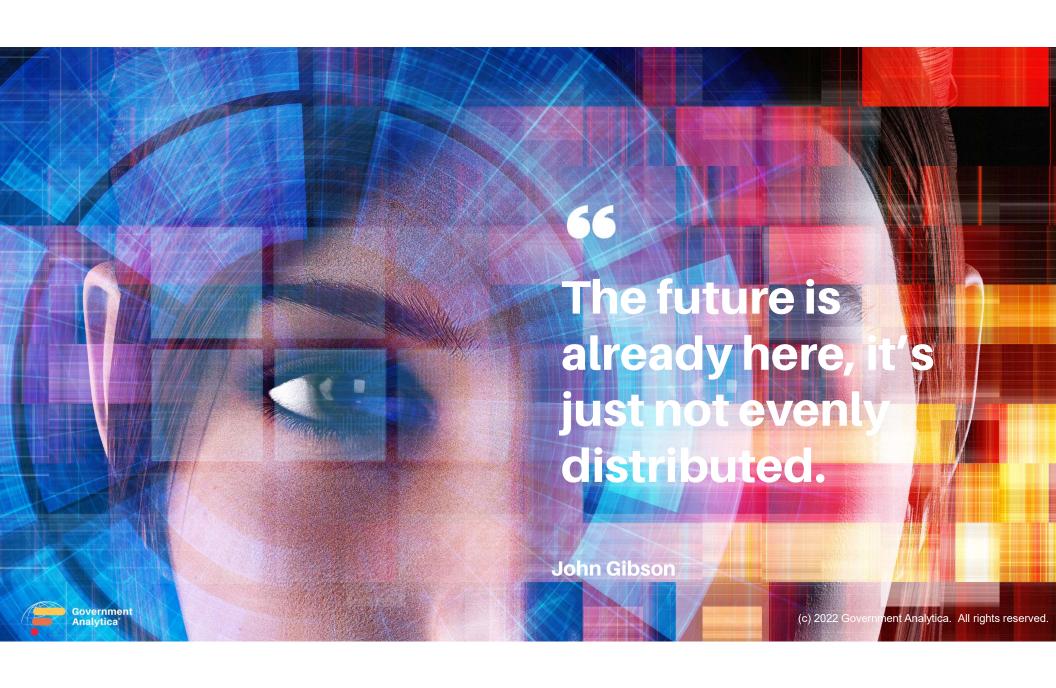
# Megatrend 3 - Governments will invest to diversify sources of supply to ensure a more resilient economy



**Supply Chain Resilience** 







# **MNDOT Transportation Outlook**

#### AT A GLANCE

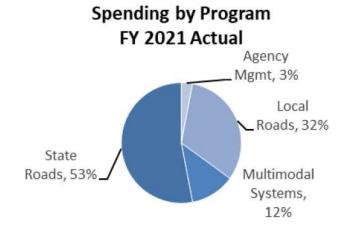
- Over 145,000 centerline miles (single roadway, regardless of the number of lanes) including trunk highways and local roads
- 4<sup>th</sup> largest roadway system in the nation
- 4,928 bridges greater than 10 feet in length on Trunk Highway routes (including railroad, pedestrian, and other structures)
- More than 91 million vehicle miles driven on average every day on the state highway system
- 360 construction projects planned in the FY22-23 biennium
- \$30-33 billion in planned investments for state highways over the next 20 years (MnSHIP)
- 5,105 full-time equivalent employees as of FY22
- Truck freight traffic projected to increase by 10 percent over the next ten years

#### MnDOT works with our partners to support:

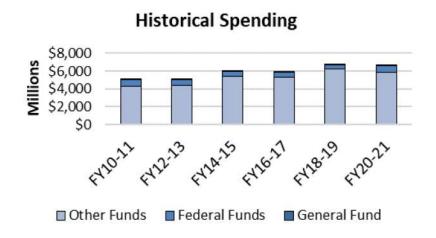
- 3 active Lake Superior and 4 Mississippi River system ports
- 34 transit providers serving all 80 non-metro counties
- 133 publicly owned state-funded airports
- 4,420 track miles serving 21 railroad companies, Northstar commuter, and Amtrak passenger service



# Federal Infrastructure Act Will Add Funding



Spending includes Trunk Highway fund debt service transfer Source: Budget Planning & Analysis System (BPAS)

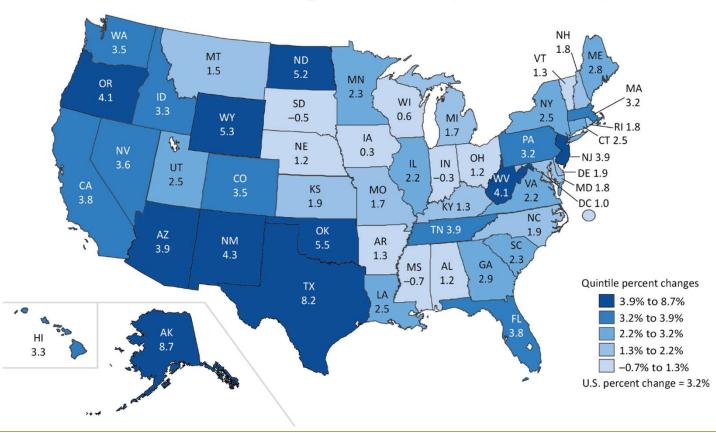


Spending includes Trunk Highway fund debt service transfer Source: Budget Planning & Analysis System (BPAS)



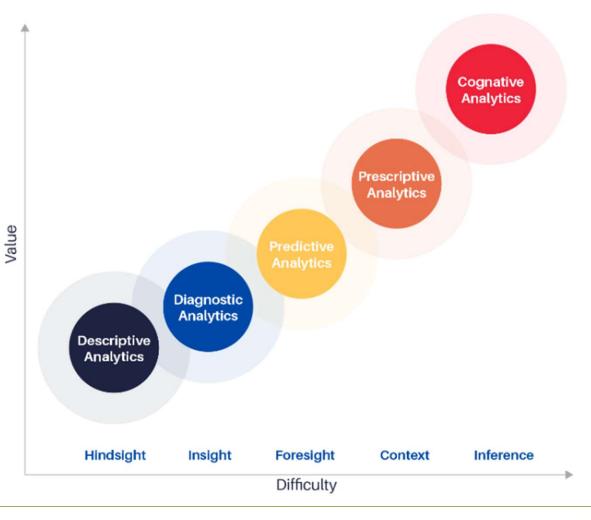
# **Attracting Investment to the State**

Real GDP: Percent Change at Annual Rate, 2022:Q2-2022:Q3





What type of analytics can we use when we do not have a complete data set?





# **Government Analytica System**

<b>A</b>	GAR	GovAn Radar ™	Tracking over 400 global influential multilateral organizations, think tanks, foundations, associations, and NGOs for early insights and trend-spotting
{~~~	GKB	GovAn Knowledgebase ™	Rigorously capturing major world economies' national, regional, and major cities: development plans, policies, legislation, and regulations on population, economy, trade, industry, public health, infrastructure, safety, and security
<b>(</b>	GWD	GovAn World Data ™	Continuously datamining the latest national, regional, and municipal statistics from countries covering 80% of global GDP ready for use in our analytics
	GPV	GovAn Public - Value Analytics ™	A compendium of our analytical tools and outcome models customized to showcase the superior public value and positive outcomes of our client proposals to governments, policymakers, and communities



# **Analytica Strategies for Public Policy**

Hypothetical: We have \$100 million investment dollars in improving freight to make Minnesota a more desirable destination for investment in infrastructure. Which transportation mix of options will increase the likelihood of a positive outcome?

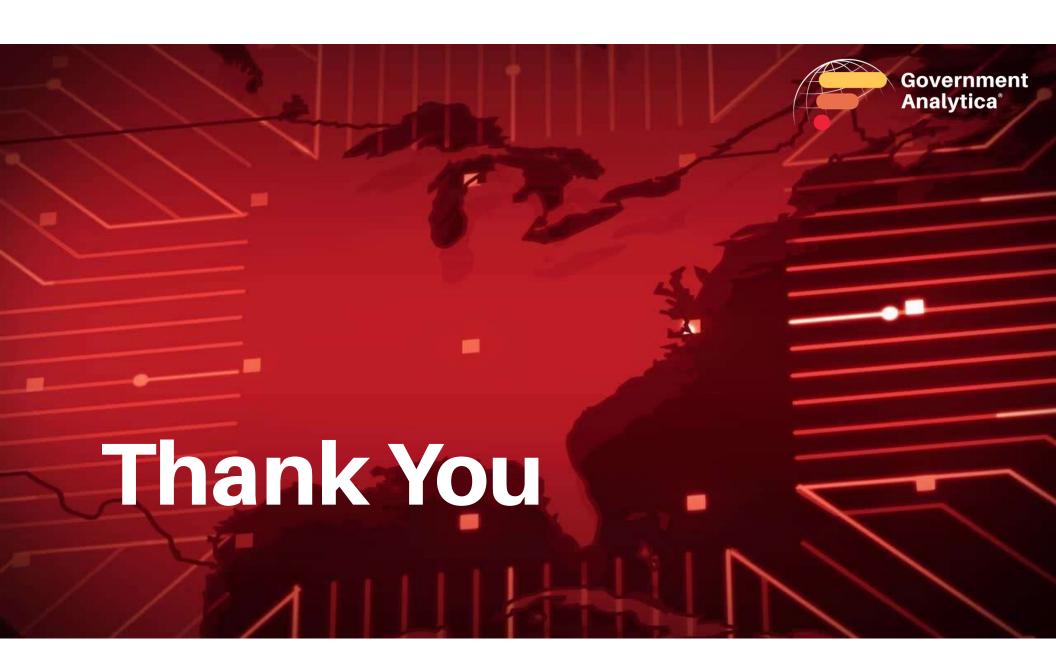
- Use of surrogate information in absence of accurate data
  - Localities and geographies in the U.S. with similar stage of economic and transportation development.
- Break-Even Analysis
  - Example: New Air Transport Route
- Monte Carlo Simulations for Sensitivity Analysis
  - Example: Multimodal Investment Mix



# **3 Intertwined Trends**









Government Analytica mines the world of Government data from a wide array of public domain sources.

We organize this information for applications in technology, healthcare, agriculture, infrastructure, urbanization, mobility, safety, and security.

Government Analytica's tools and techniques are applied to this rich pool of information to highlight the superior public value and amplify the merits of client proposals to policymakers.







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