



COVERLAB Panel Session

May 18, 2022



coverlab.org

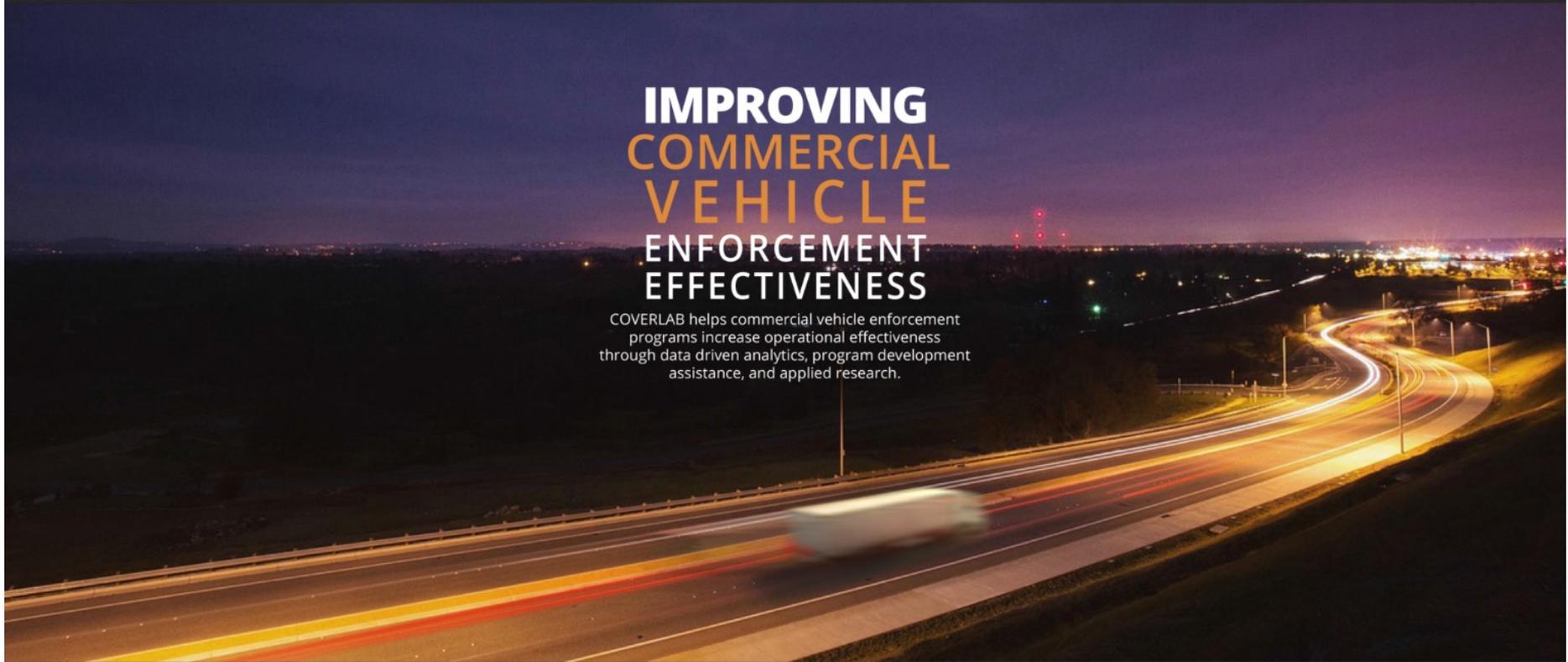
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IMPROVING COMMERCIAL VEHICLE ENFORCEMENT EFFECTIVENESS

COVERLAB helps commercial vehicle enforcement programs increase operational effectiveness through data driven analytics, program development assistance, and applied research.



DEMO

Command Staff Report

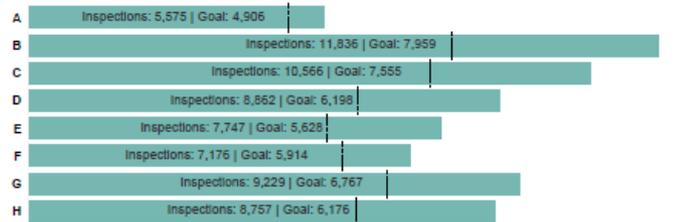
COMMERCIAL VEHICLE ENFORCEMENT UNIT EXECUTIVE SUMMARY

Inspections Data: Oct 1, 2021 - May 3, 2022
Crash Data: Oct 1, 2021 - Mar 31, 2022

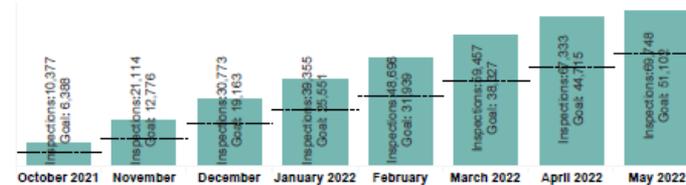
(MCSAP Goals)



Total Inspections



Inspection Goal Progress



Level 1 Inspections



Level 2 Inspections



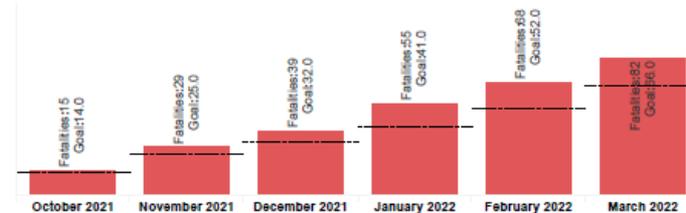
Level 3 Inspections



Total Fatalities



Fatalities Goal Progress



COVERLAB Evolution

- **Incremental**
 - Started with geocoding crashes
 - Crash map deliverables
 - Added online maps
 - Added grant writing assistance
 - Added Analytics
- **Funding Model**
 - Retainer-based
 - 60 / 40

Partnership Benefits

- **Extends the reach of CVE programs without the commitment of an FTE**
- **Provides Business Continuance**
 - Complex program has steep learning curve
 - Command staff turnover decreases efficiency
 - Critical business services are continued while command staff gets up to speed
- **Inexpensive relative to consultants**
- **Non-profit / education adds credibility to program**
- **Extends CVE capabilities – incrementally at first**

Getting Started

- Identify the most important needs
- Identify internal resources
- What don't you have?
- What is your budget?

- Do you have a University Transportation Center?
- If not, reach out to data science, GIS, stats, etc. dept.

Getting Started

- **Start small**
- **Excel**
- **Geolocate crashes**
- **Fixed deliverable to establish trust**

University Challenges

- Access to data and PII, security, etc.
 - Can't directly apply for grants due to competition
 - Discretionary based on commander
 - Integration of systems
 - Retention of long term employees
 - Need relationship building skill sets
-
- **Upsides**
 - Established trust = extension of staff
 - Partnership = recurring funding
 - Flexibility if trust is gained

CVE Challenges

- **How to allocate part of your funds for university assistance**
- **Budget constraints needed to justify**
- **Access to raw data**
- **Technical capabilities to manipulate and analyze data**
- **Lack of technical personnel dedicated to CVE**

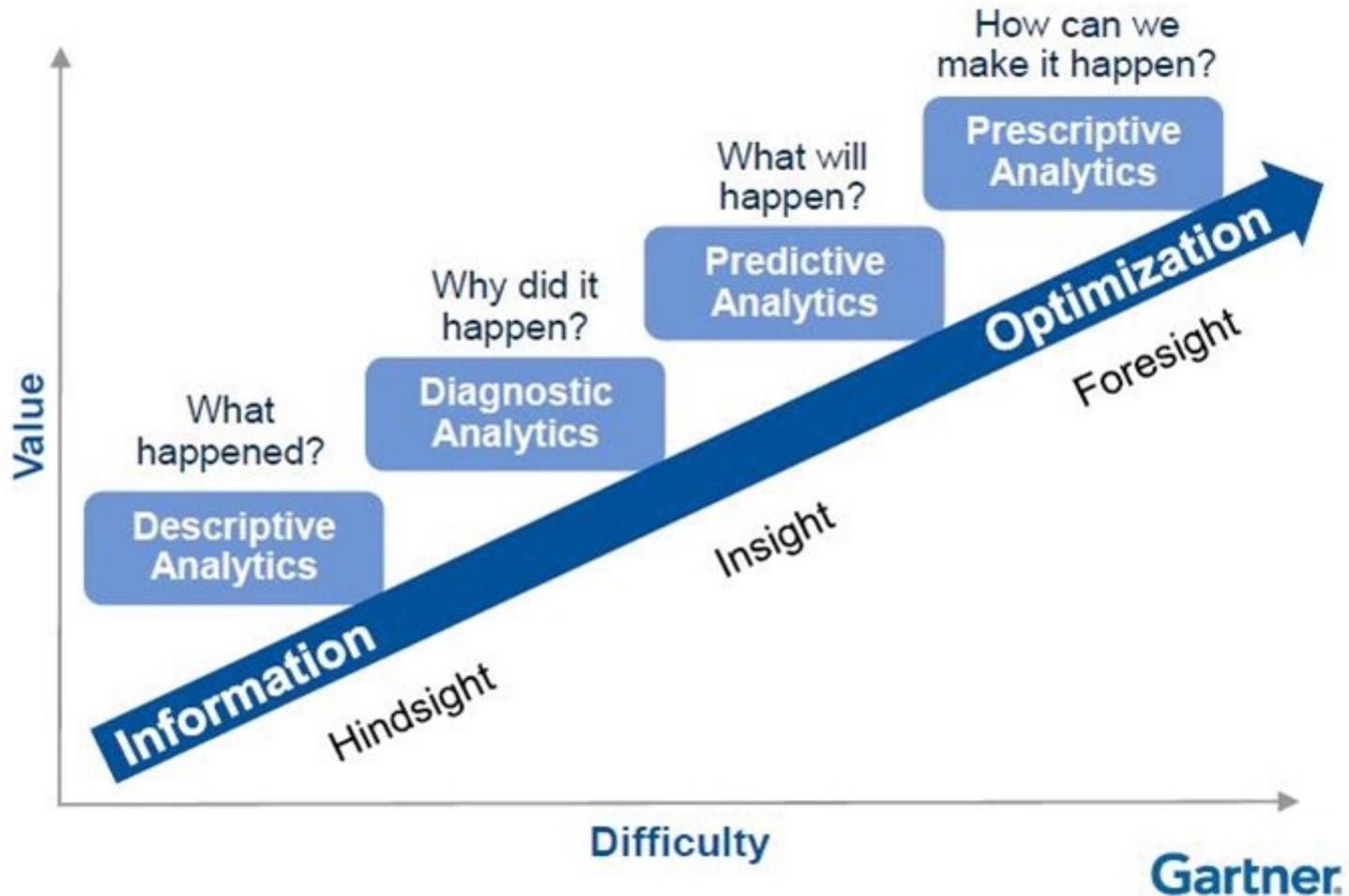
Skill Sets

- **Data Science**
- **GIS**
- **Statistics**
- **Computer Science**
- **Analytics**
- **Information Technology**

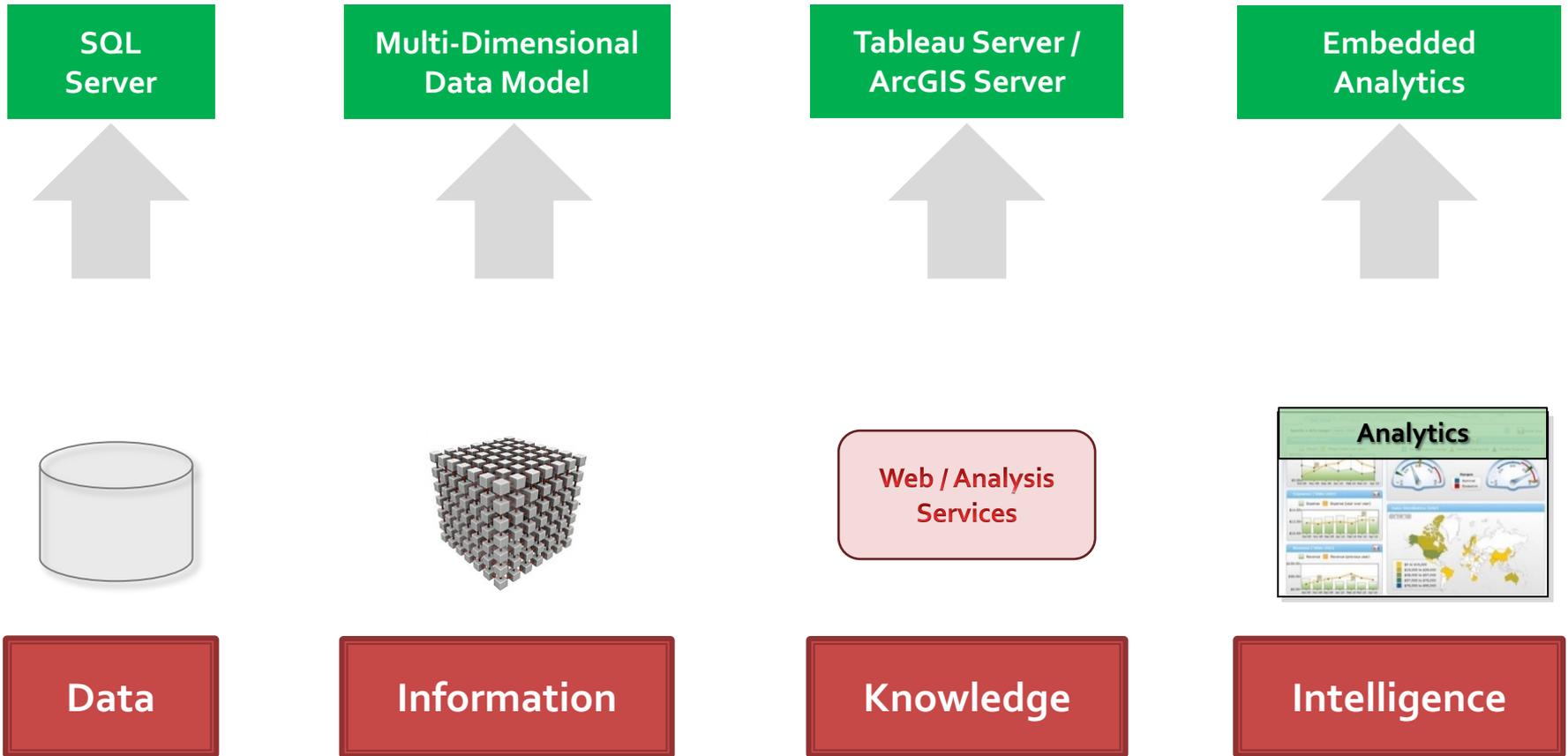
Lessons Learned

- **Accessible = Simple**
 - Invest in data visualization best practices
 - Invest in UI/UX
- **Command Staff Buy-In**
- **Require reporting of outcomes and strategies**
- **Actionable Intelligence**
- **Leverage pre-existing technologies**

Types of Analytics



Behind the Scenes



What's Next?

Effectiveness



Develop Smart Strategies

- **Are We Being Effective?**
- **Specific Targeted Enforcement**
 - who, what, where, why how
- **Specific Alternative Interdictions**
 - When and where are NCDOT treatments needed?
 - Where and when is teaming effective? Local/Traditional
 - Identifying and engaging high risk carriers