A PRESENTATION BY ESO

Solano County EMS Repository

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THE ESO MISSION

Make a Difference

Improve Community Health and Safety Through the Power of Data

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Who is ESO?

Our Mission

Improve Community Health and Safety Through the Power of Data

Our Vision

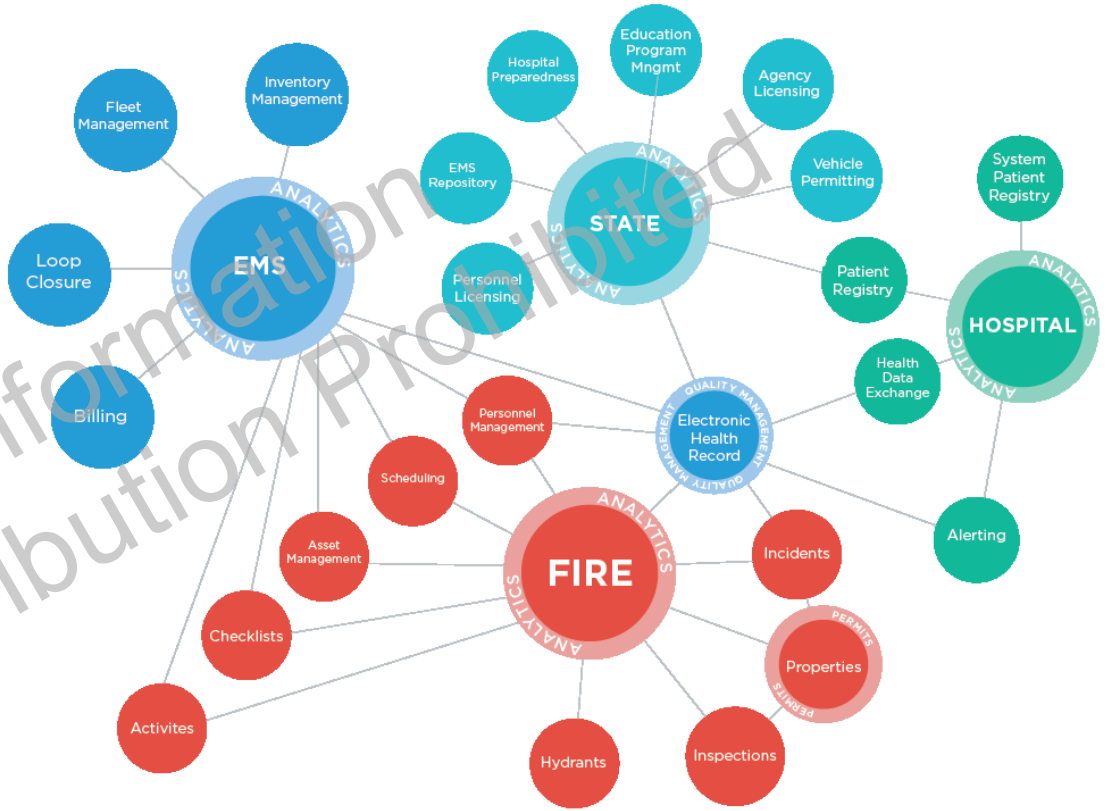
Build a comprehensive platform ecosystem with robust analytical capabilities to provide a full picture across the healthcare and public safety continuum.

Our Company

We are 350+ strong with resident expertise in clinical, operational, and technical aspects of health and public safety.

Our Promise

We are not a vendor. We are a partner dedicated to your success.



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Research & Performance Improvement

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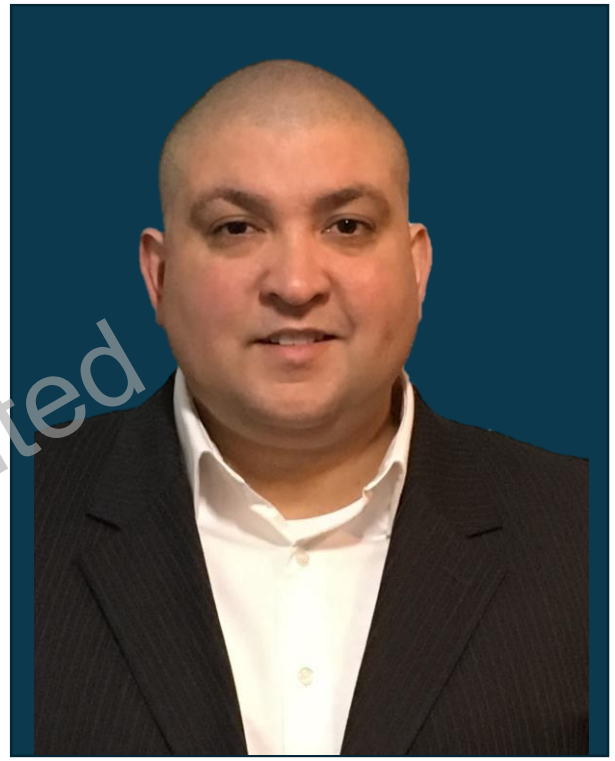
Brent Myers, MD
Chief Medical Officer

Scott Bourn, PhD, RN, FACHE
Senior Quality Consultant
Chair, Research Leadership Group

Remle Crowe, PhD, NREMT
Research Scientist &
PI Manager



Tony Fernandez, PhD, NRP
Research Scientist

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ESO Research & Performance Improvement Team

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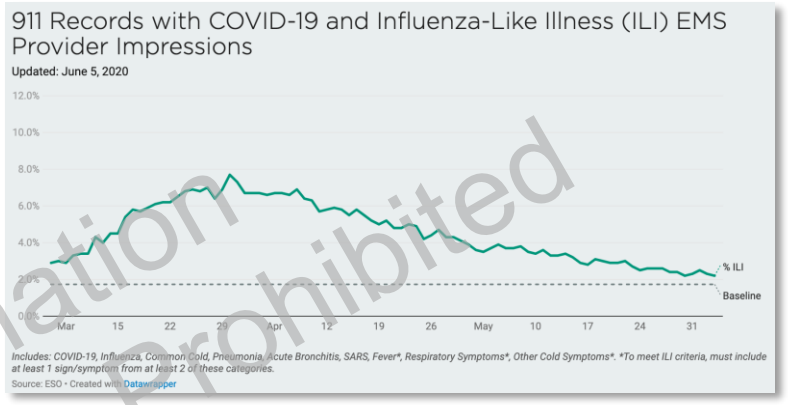
ESO Research Database

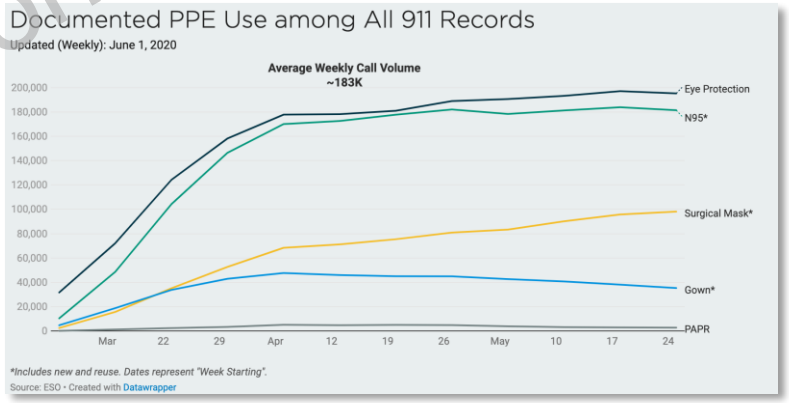
1,300+ participating agencies

In 2019,

~ 8.5 million EMS records in 2018

~ 700,000 HDE outcomes





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Presentations and Awards

40+

Abstract Presentations

5+

Peer-reviewed Manuscripts

Best Scientific Presentation
at the 2020 annual meeting of the National Association of EMS Physicians (NAEMSP)

First Place
at the 2019 annual meeting of the National Association of EMS State Officials (NASEMSO)

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ESO Electronic Healthcare Record (EHR)

Industry leading user interface

Highly configurable

Web and mobile client

Integrated CAD, monitor billing interfaces

Patient and HIE Lookup

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ESO Data Platform

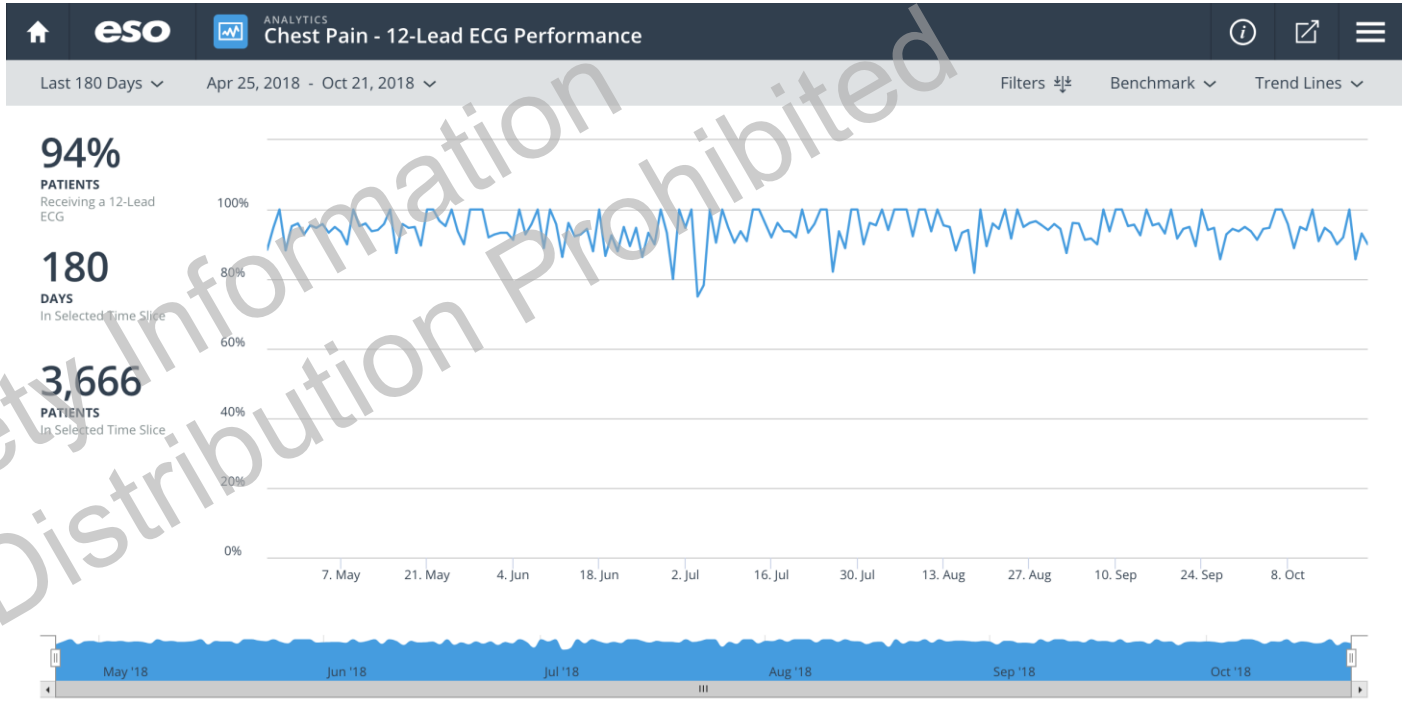
Big Data Solution for EMS Systems

Healthcare Analytics Platform

- Performance Measures
- Customization
- Multi-Level Benchmarking
- Performance Improvement

Regional Healthcare Repository

- NEMSIS 3.3.4 and 3.4 Compliant
- Data Quality Scoring and Improvement



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ESO Analytics

Complex reporting made simple

120 base measures

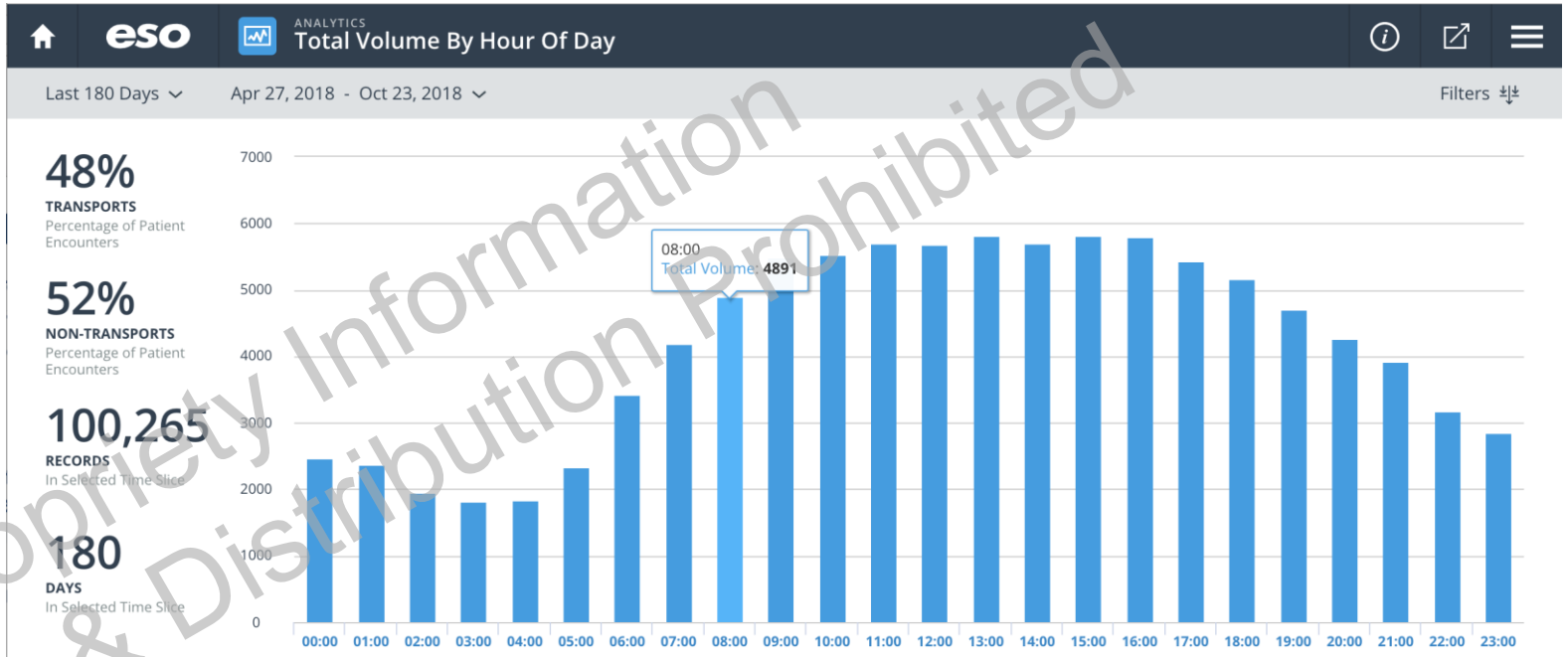
Clinical, Operational, Outcomes

Easily adapted to new measures

Drill to detail

Benchmarking

Hospital version



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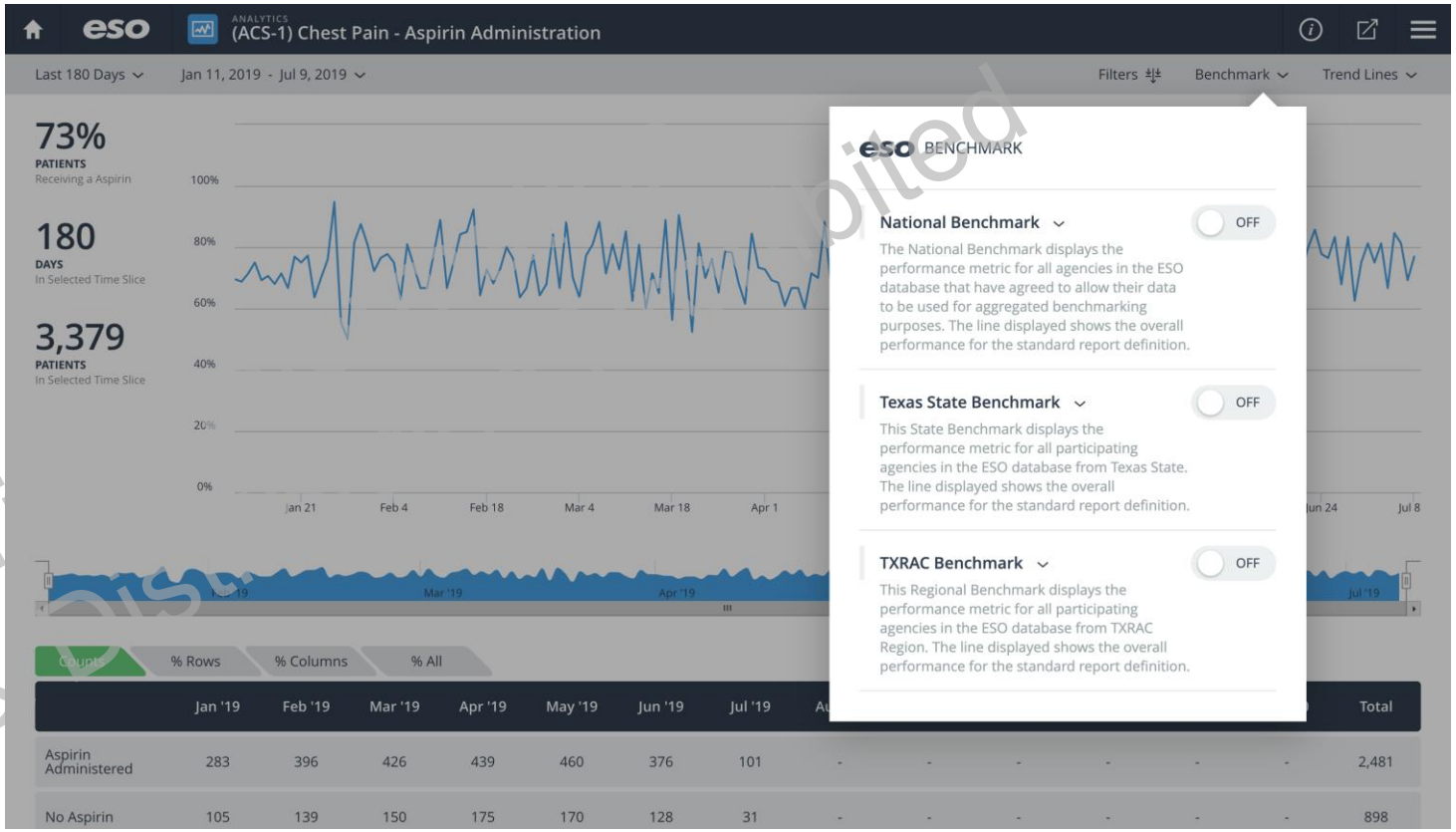
ESO Benchmarking

How does my system measure up?

Are our goals reasonable?

Is there room for improvement?

Demonstrate that improvement over time.



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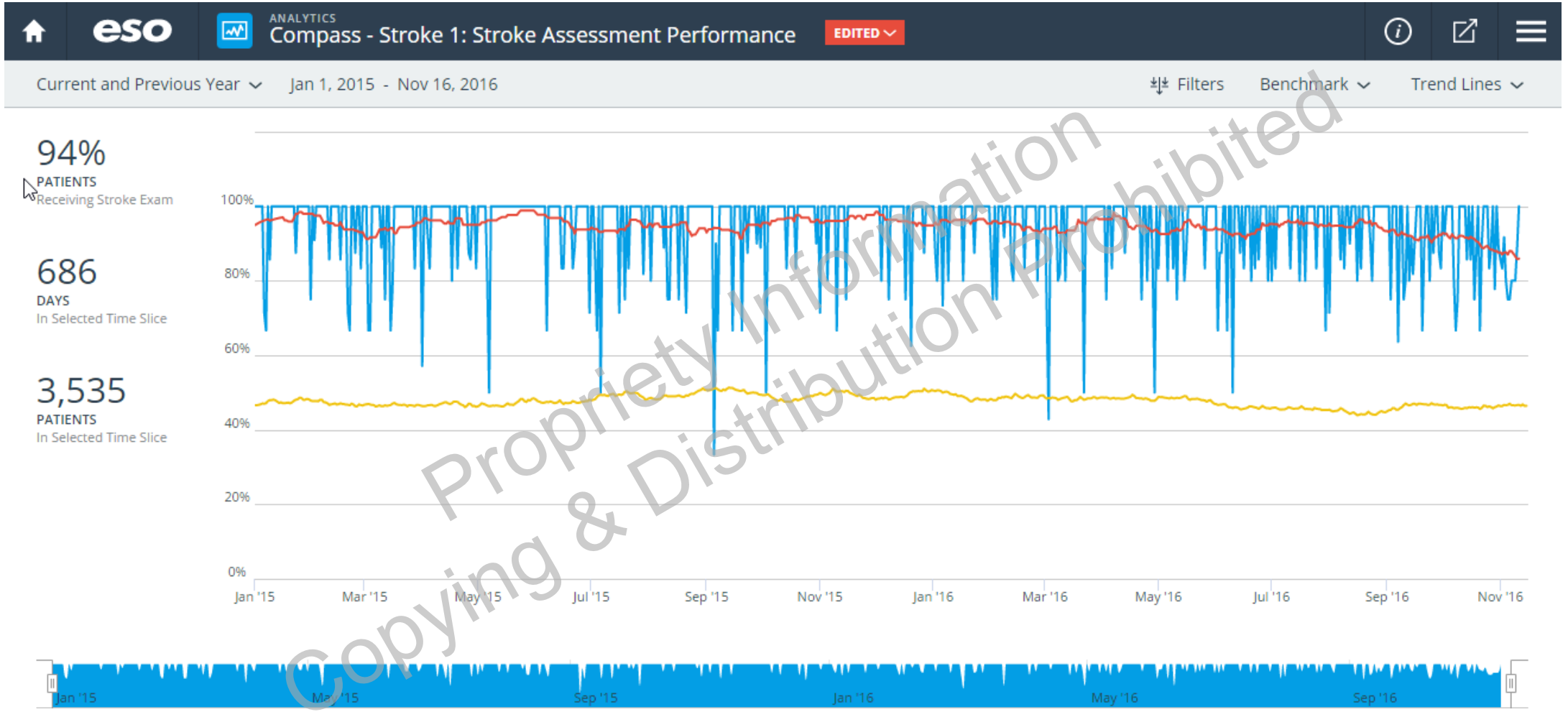
ESO Benchmarking



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ESO Health Data Exchange (HDE)

Platform-as-a-Service

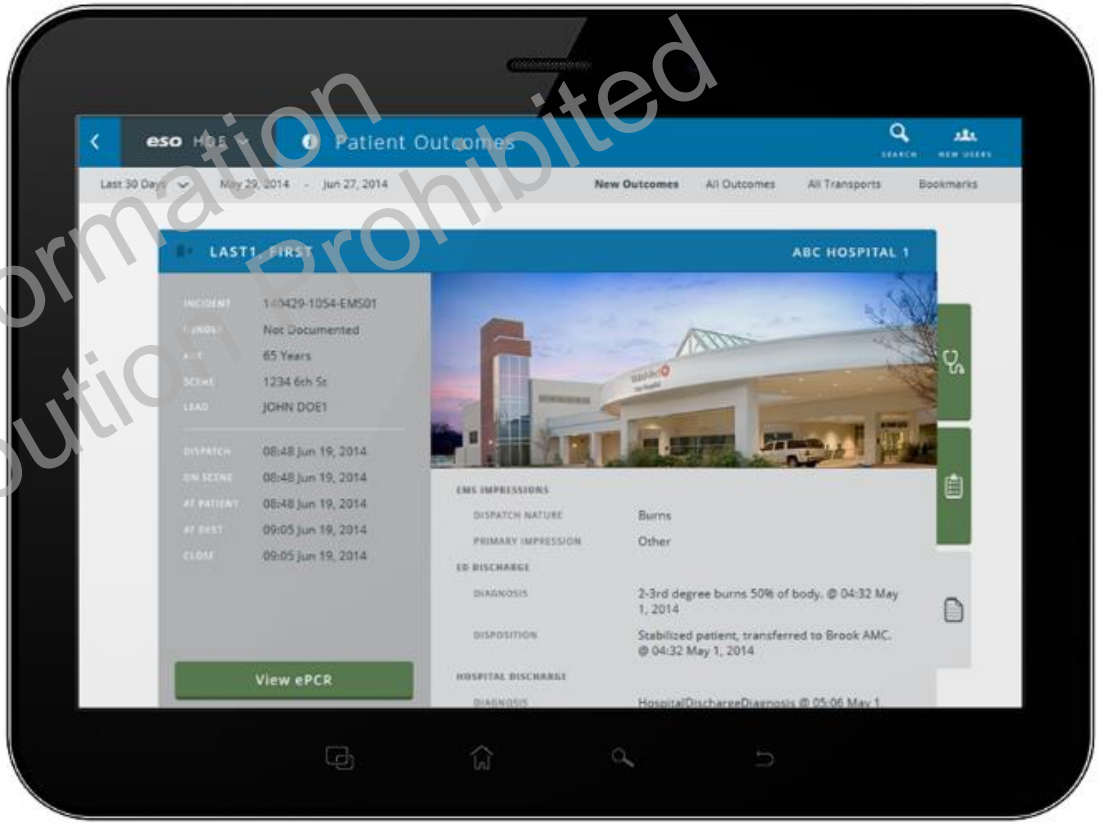
Bidirectional data sharing

Connect EMS record to EMR

Return outcome data to EMS

260,000 messages daily

HIE Integration



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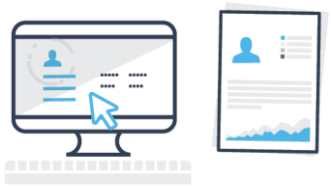
About HDE

Bidirectional Data Sharing

- EMS record into your EMR
- Outcomes back to EMS



Support Critical Hospital Processes

- Continuity of care
- Evaluate FMC to discharge
- Provides loop closure
- Support EMS alignment strategy

Support EMS Quality Processes

- Support provider training
- System quality processes

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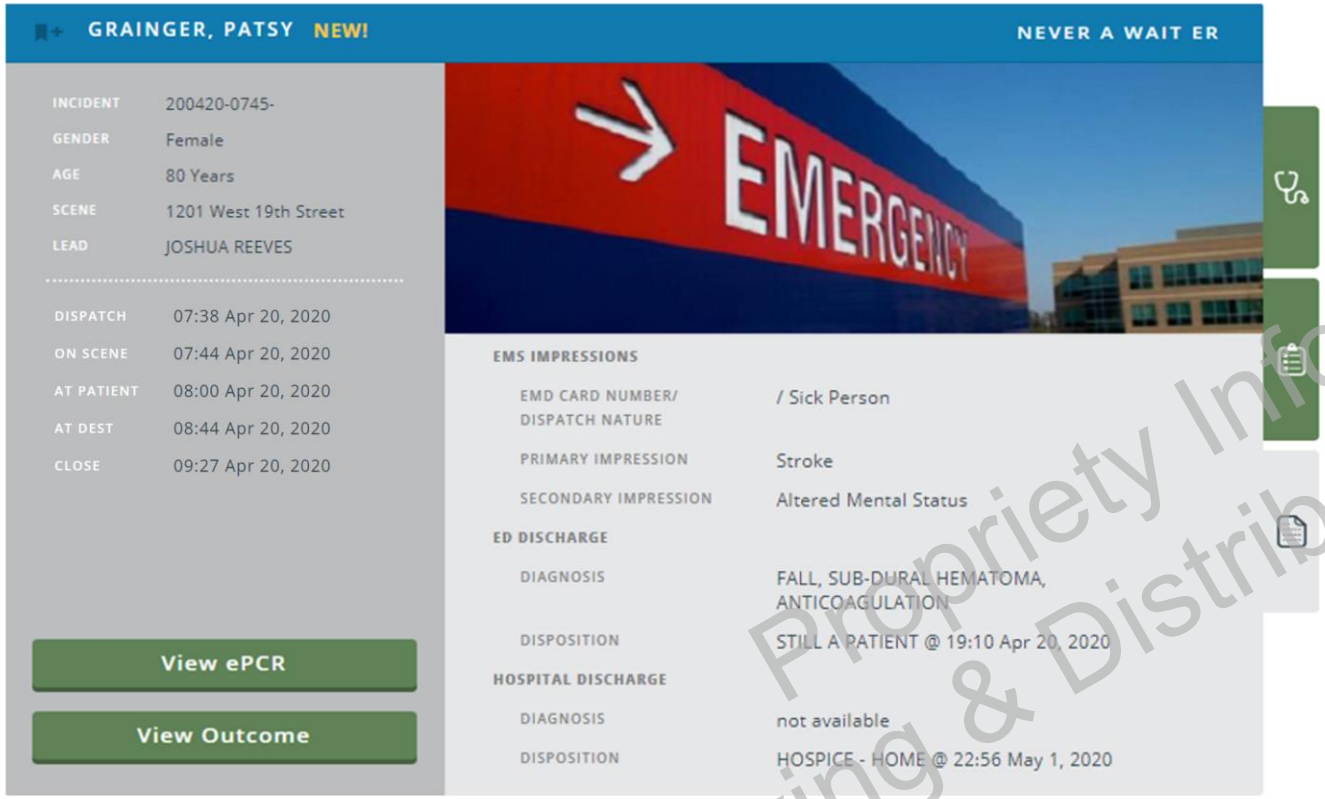
Outcomes for EMS



Secure Portal

- Role-based access
- Granular levels of data access assignable by local admin

Link to Analytics

- Link 911 -> Impression -> Outcome
- Discrete data available to every agency

2.5 Million Outcomes & Counting

- Supports EMS training
- Drives real-world research

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Project Update

Active

- ✓ Vacaville Fire Department

In Progress

- ✓ Medic Ambulance Service

Pending

- ✓ Bay Medic
- ✓ Benicia
- ✓ Dixon
- ✓ Fairfield
- ✓ Falck
- ✓ Falcon CCT
- ✓ Sacramento Valley
- ✓ Vallejo
- ✓ West Coast Medical

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Project Timeline

June 15, 2020

- Medic Ambulance Service live and submitting data

July 1, 2020

- Pending agencies are configured and vendors have received endpoint credentials

July 15, 2020

- All agency vendors are actively submitting to LEMSA

Sept. 1, 2020

- Two years of historical data is received (as applicable) and populated into Solano LEMSA

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Questions & Comments

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