PRAXAIR

Making our planet more productive

Working as a GIS Professional

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Application Developer

Praxair at a Glance

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- A Fortune 300 company with 2017 sales of $12 billion
- A leading industrial gas company in North and South America and one of the largest worldwide
- Doing business in more than 50 countries
- ~26,000 employees
- One million customers worldwide

Background

- Attended University at Buffalo
  - Masters degree (MA) in GIS with concentration in Transportation and Business Geographics (2008)
  - Bachelor degree (BA) in Geography with concentration in International Business and World Trade (2005)
- Interned at UB Regional Institute as a graduate assistant in 2006
- Interned at US Department of Agriculture in East Aurora in 2006
- Started at Praxair in 2007
  - Intern
  - Contractor
  - Employee

Knowledge & skills needed

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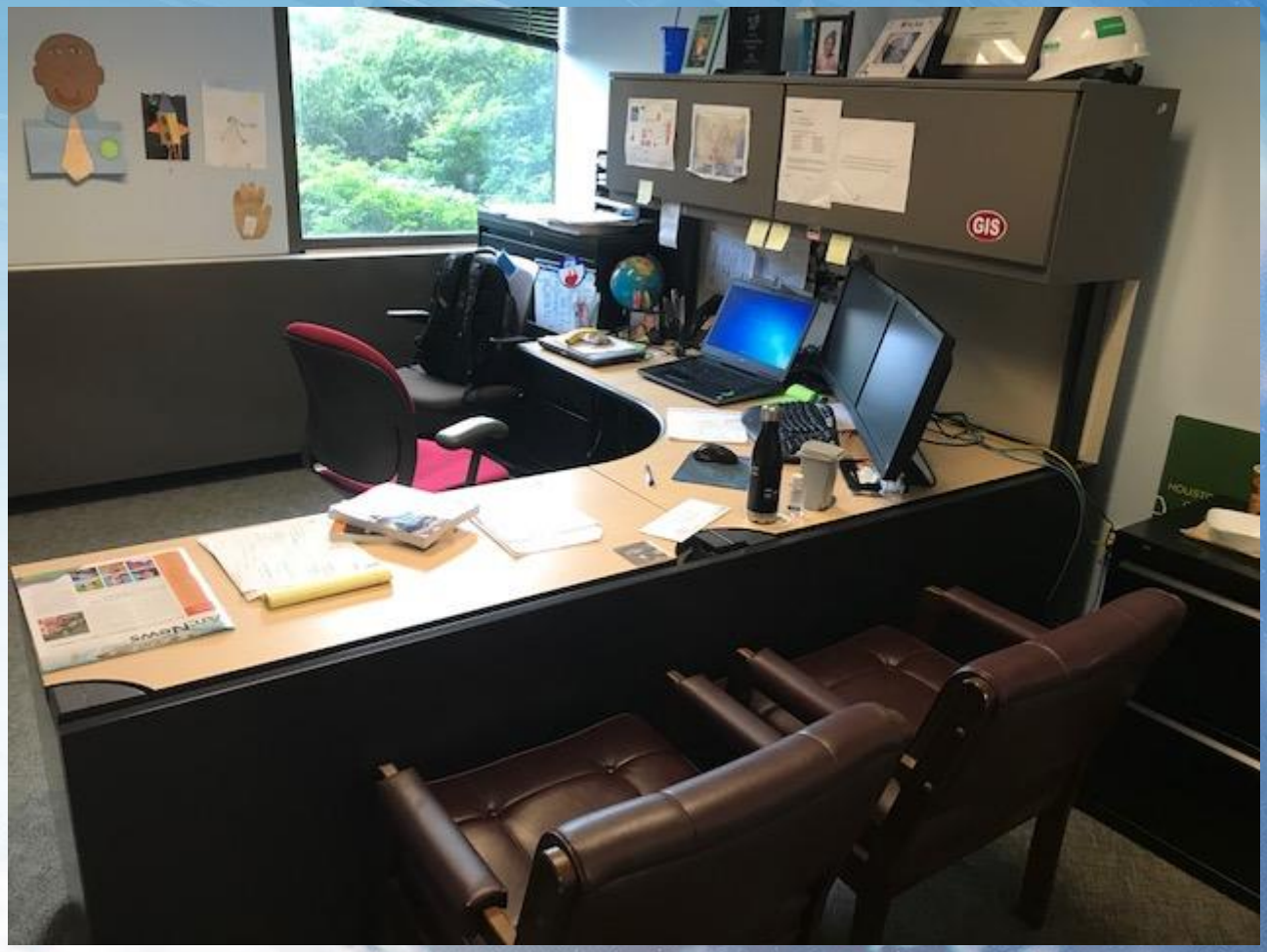
- Formal GIS training is necessary but not enough
- Keep up with technology changes – learn everyday
  - ArcGIS suite of applications (ArcGIS Desktop, ArcGIS Server, ArcGIS Online, Web Map, Workforce for ArcGIS, Navigator for ArcGIS, Survey123 for ArcGIS, WebApp Builder for ArcGIS, ArcGIS Rest API, ArcGIS API for Javascript)
- On the job training (Mentorship)
- Learn to code
  - Javascript, Python, C-Sharp etc…

My office



Typical day - Logistics

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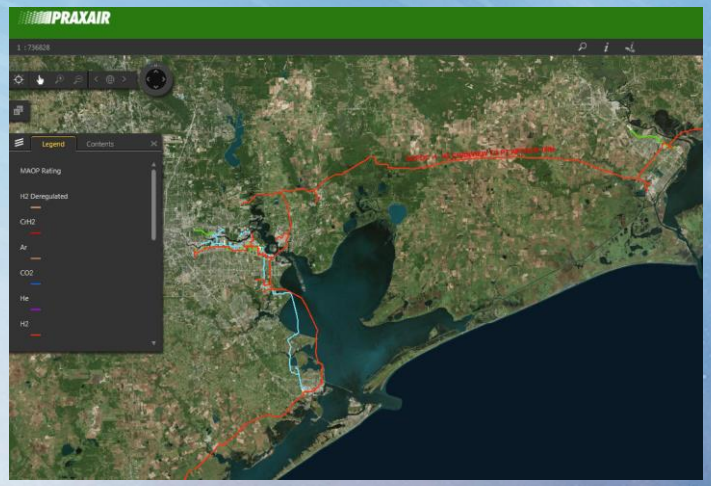
- Plan route for new and existing customers
- Routes selection
- Routes monitoring

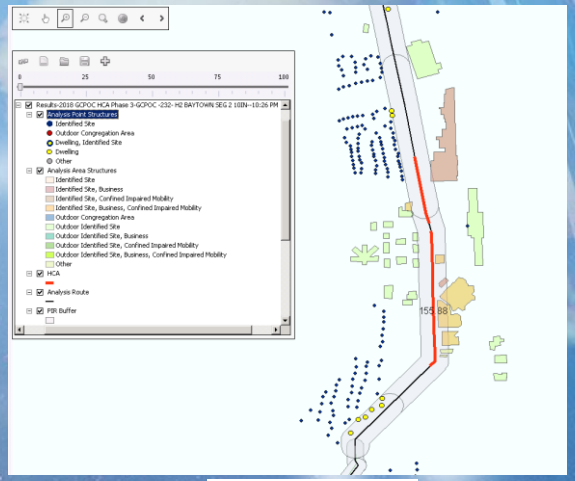
In 2017, Praxair trucks made 300,000 deliveries and drove 56 million miles

Pipelines GIS

Paper Maps



GIS



Analysis

Praxair owns and operates more than 1,000 miles of pipelines

Current GIS Project

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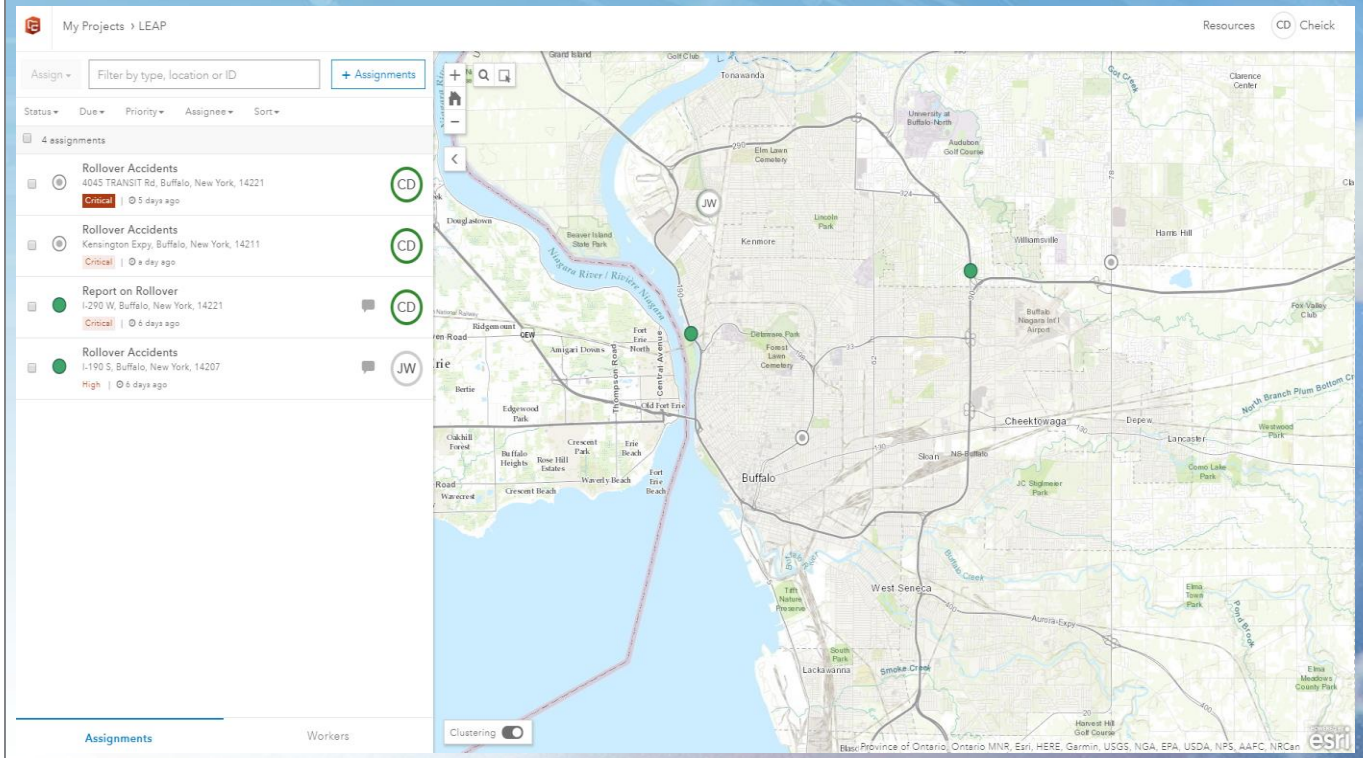
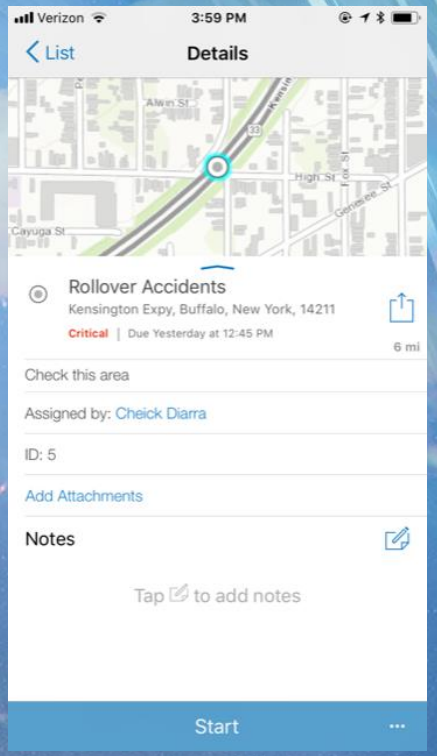
Desktop view



Mobile View



Workforce for ArcGIS

Current GIS Project

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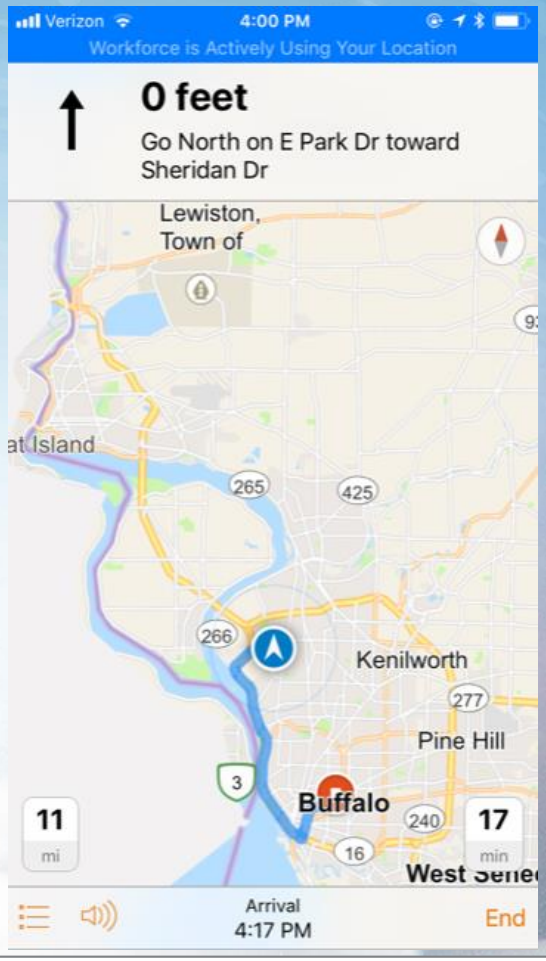
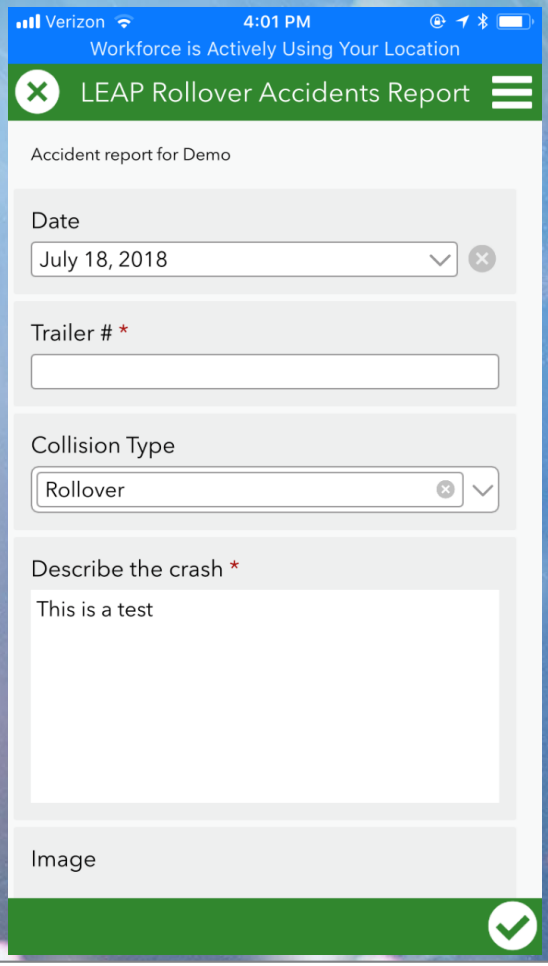
Navigator for ArcGIS



Survey123 for ArcGIS



Demand for GIS Professional

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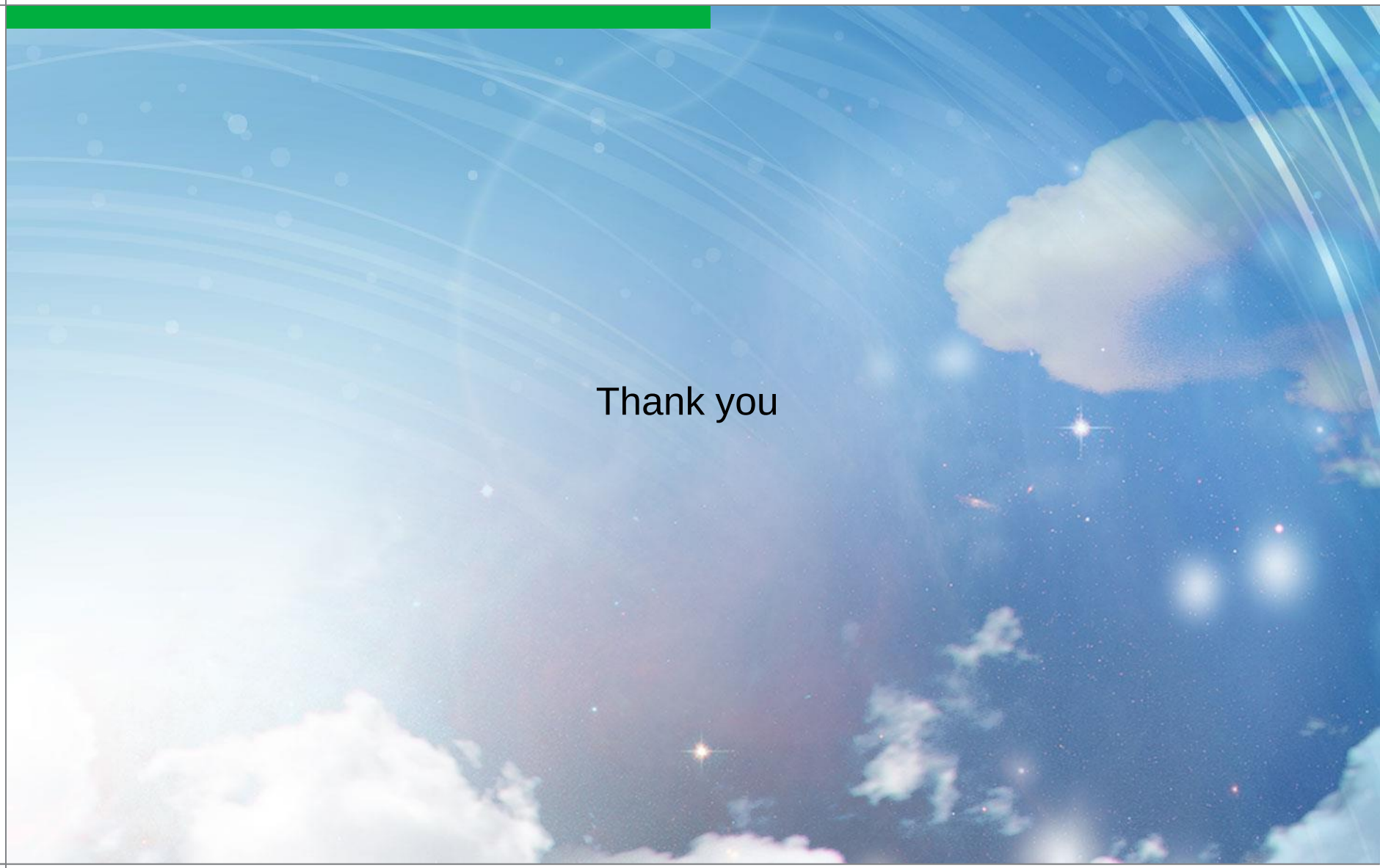
- Huge demand of people with GIS Skills
- GIS can be used in every business because most of the data we have possess a geographic reference
- Companies are now realizing the importance of the technology and the value that it brings
- GIS is saving Praxair lot of money



Thank you