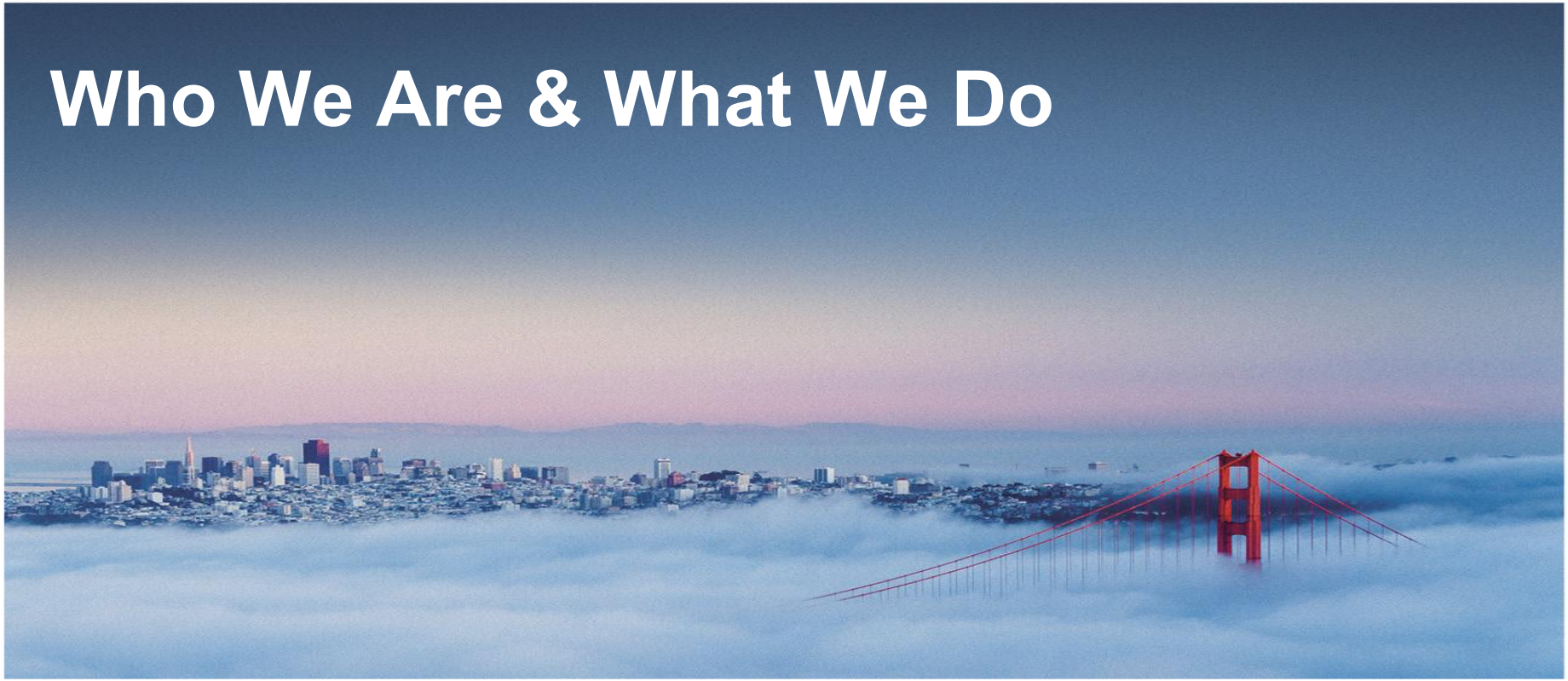
ERRIGAL

Who We Are & What We Do



Errigal Confidential and Proprietary

About Me

- **Test Engineer**
- **2 years working at Errigal**
- **Graduated BSC Applied Computing from WIT**

sophie.renshaw@errigal.com
087-1477066

Errigal Confidential
and Proprietary

Who Are Errigal?

- **Founded in 1996**
- **Head Office in San Francisco**
- **Development Office in Waterford since 2007**
- **Small but fast-growing company - 500% growth since 2007**

Errigal Confidential
and Proprietary

What Does Errigal Do?

- **Specialise in Distributed Antenna System (DAS) Monitoring**
- **DAS is used to fill in the gaps in the 4G network - Replaces the need for Masts in Urban areas**
- **Receive SNMP Traps from DAS**
- **Translate Traps to create Alarms and Tickets**
- **Combination of Alarms, Tickets and Reports allows our Customers to manage their DAS Network**

Errigal Confidential
and Proprietary

Technologies

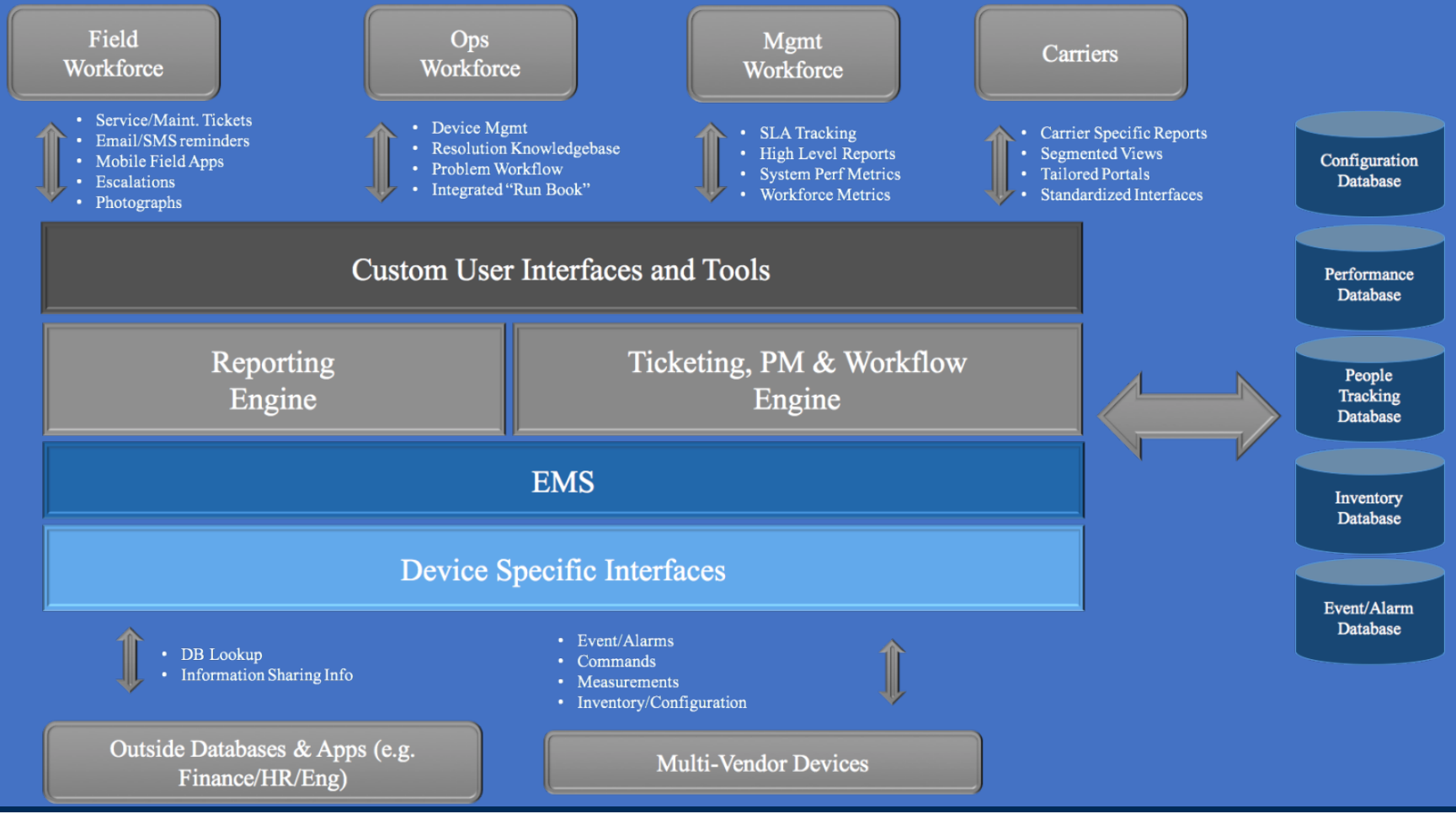
- Java
- Groovy
- Grails
- SOAP
- SQL
- React.js
- REST
- AWS
- Ansible
- Jenkins
- SonarQube
- Scrum Methodology
- Micro Services
- UI/UX

Errigal Confidential
and Proprietary

Our Applications - Errigal IDMS

- **SNMP Manager - Core Application**
- **Element Management System (EMS) - NOC, Business, Carrier Users**
- **Reporting - Business Users**
- **Ticketer - Network Operations Centre (NOC) Users**

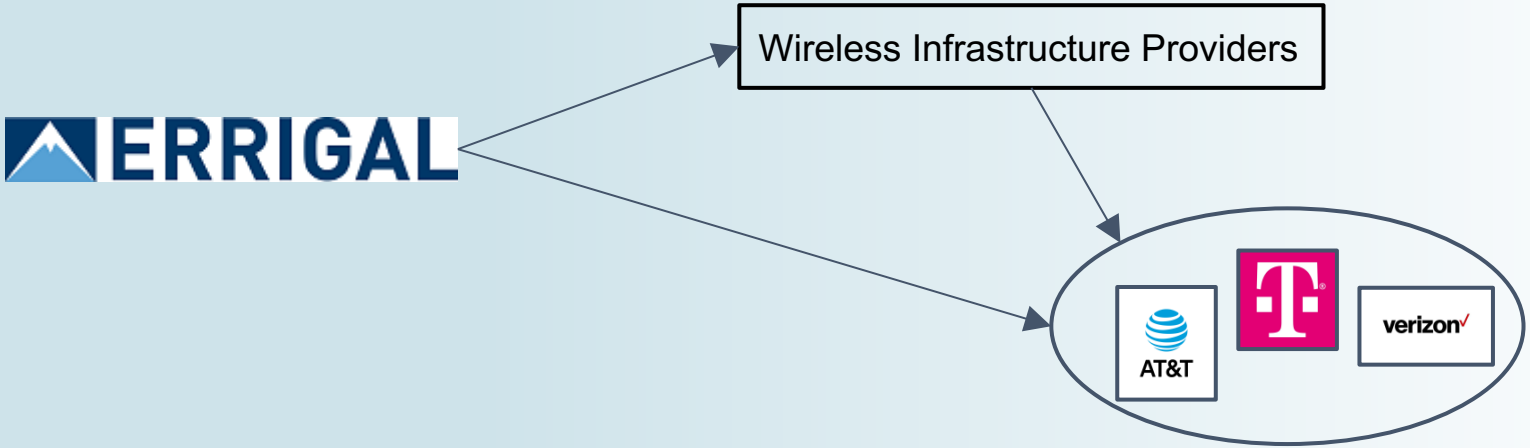
Errigal Confidential
and Proprietary



Errigal Confidential and Proprietary

Errigal and our Customers

- **Our Software allows our Customers manage their DAS**
- **DAS used by US Phone Carriers - AT&T, Verizon, TMobile**
- **Also working directly with the Carriers for the Carriers needs**



Errigal Confidential
and Proprietary

Branching Out

- **Errigal started out in DAS**
- **Branched into Device Monitoring**
  - Smart Meter Monitoring - Electrical & Gas
  - Internet Of Things
- **Monitoring Fiber - 120K miles of fiber**

Errigal Confidential
and Proprietary

Daily Challenges We Face

- **SNMP Challenges**
  - Reliability - being sent vs. arriving at their destination
  - Security
- **OEM (Vendor) Challenges**
  - Multiple DAS Vendors
  - Different OEM's have different naming conventions
  - Errigal has developed Standards for each OEM
  - As experts we have developed a certification program for Vendors

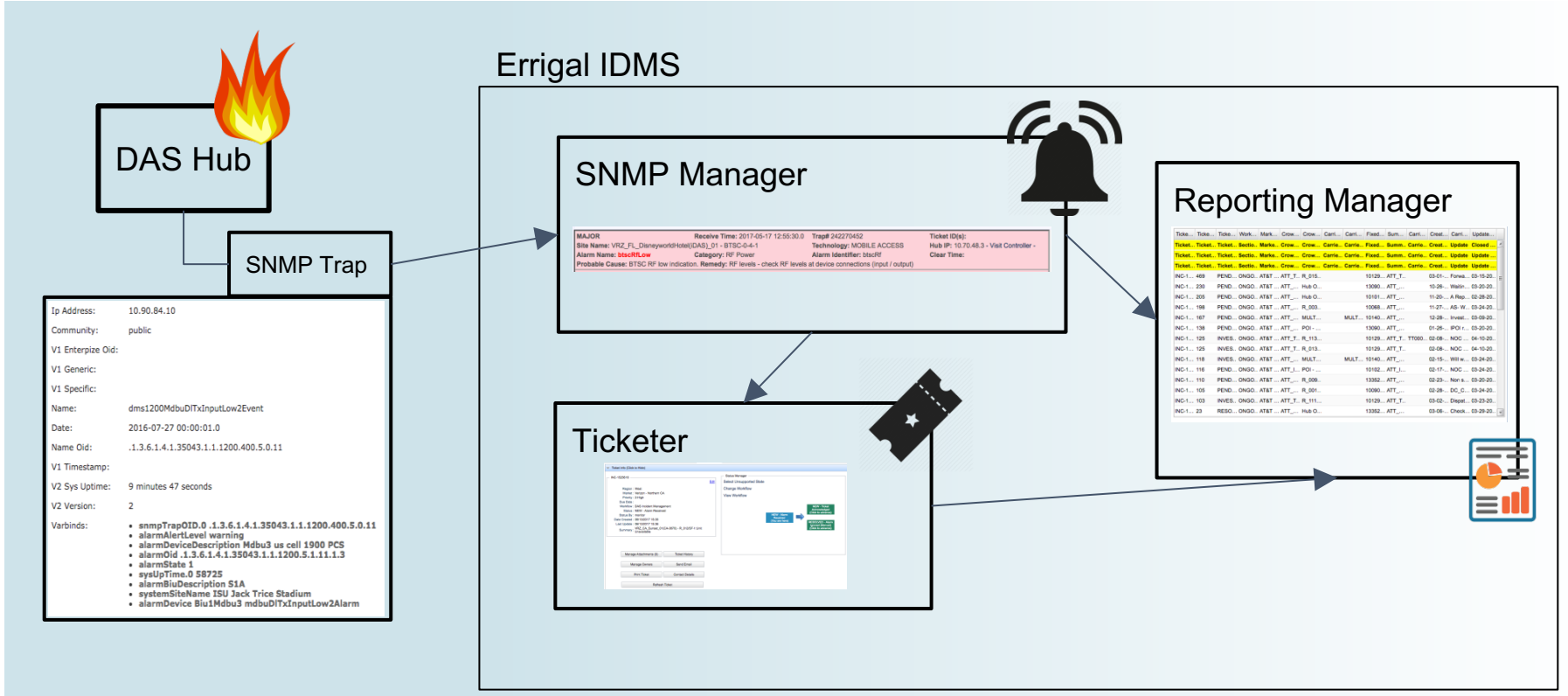
Errigal Confidential
and Proprietary

Testing

- **As our application grow, so does our testing effort**
- **Moving away from Manual testing**
- **Developing an automated test suite using a number of technologies:**
  - GEB
  - Spock
  - SikuliX
  - Selenium Web Driver

Errigal Confidential
and Proprietary

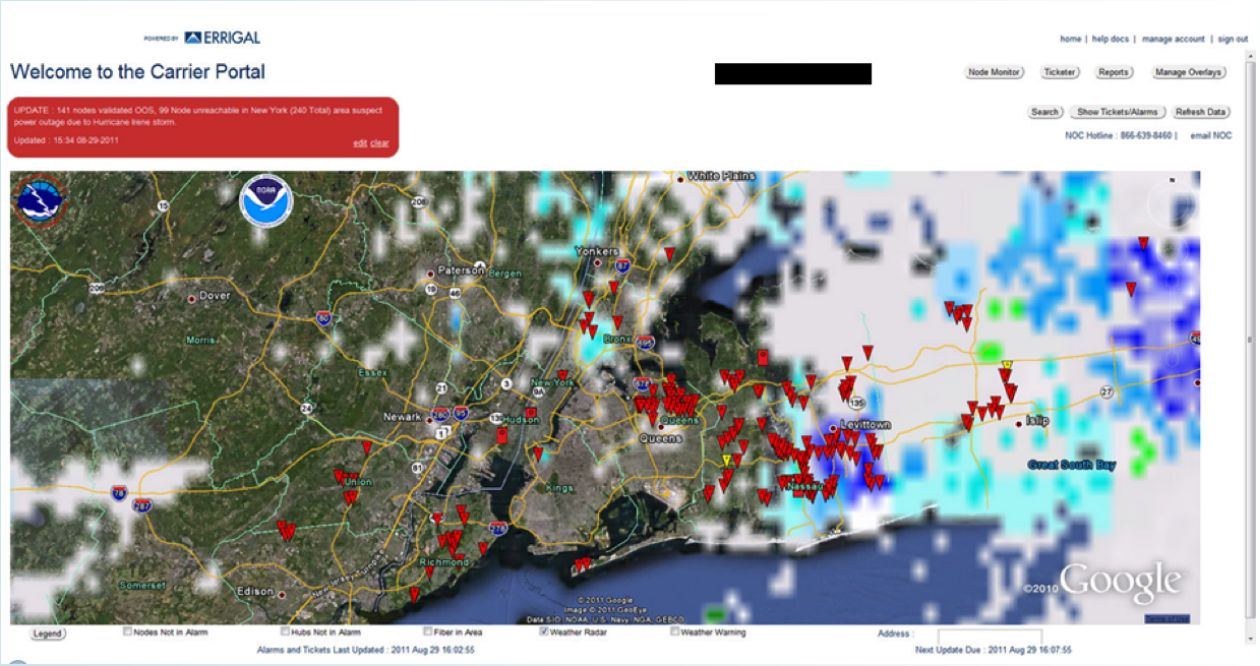
Lifecycle of a Trap



Errigal Confidential
and Proprietary

Errigal to the Rescue

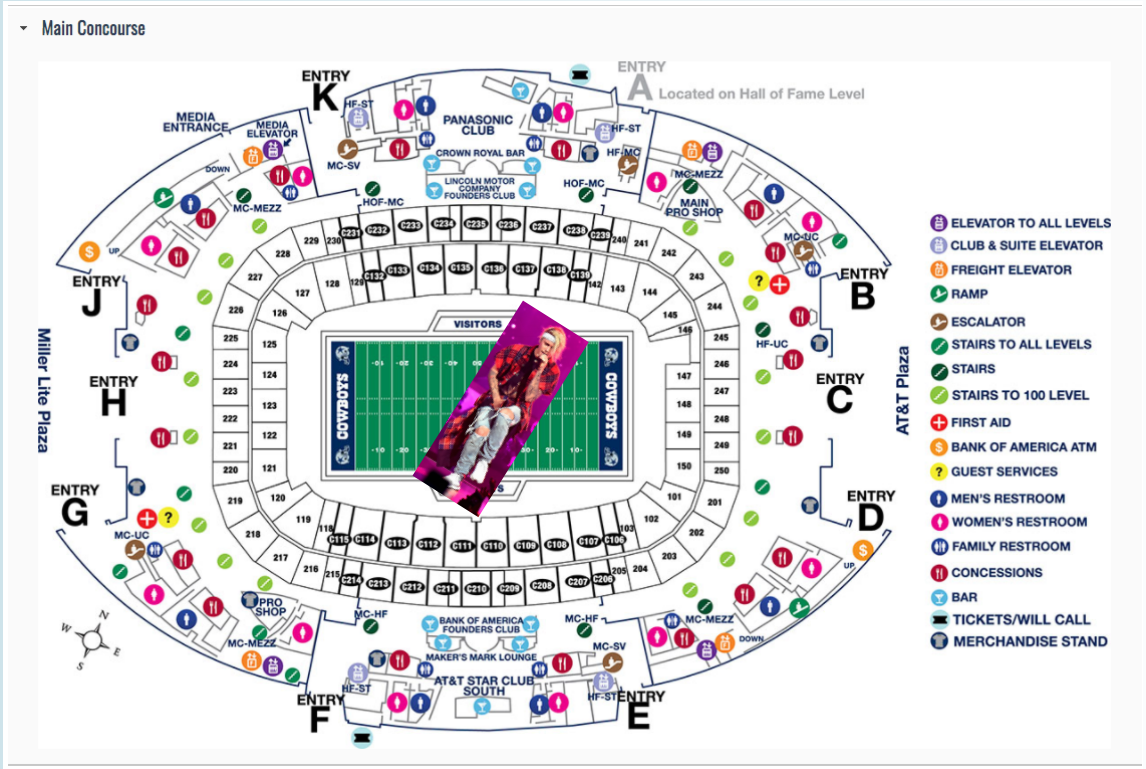
Hurricane Irene



Errigal Confidential
and Proprietary

Errigal Real World Projects

Justin Bieber Concert - AT&T Stadium Dallas



'Real World' Errigal Stories

- **'Squirrel Incident'**
- **'Texas Shotgun Incident'**

Errigal Confidential
and Proprietary

See the World with Errigal

- **Head Office**
  - San Francisco
- **Customer Locations**
  - Chicago
  - Pittsburg
  - Raleigh
- **Conferences**
  - North America & Europe

Errigal Confidential
and Proprietary

Work-Life Balance

- **Active Sports and Social Club:**
  - Soccer
  - Basketball
  - Go-karting
  - Greyhound Racing
  - Water Sports
  - Rock Climbing
  - Laser Tag

Errigal Confidential
and Proprietary

Questions?

Errigal Confidential
and Proprietary