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Bushfire Alerting Automation System

Nicholas Laurent | Managed Services Manager

Converging Data

18/07/2017 | Washington, DC

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Nicholas Laurent
Managed Service Manager
Converging Data

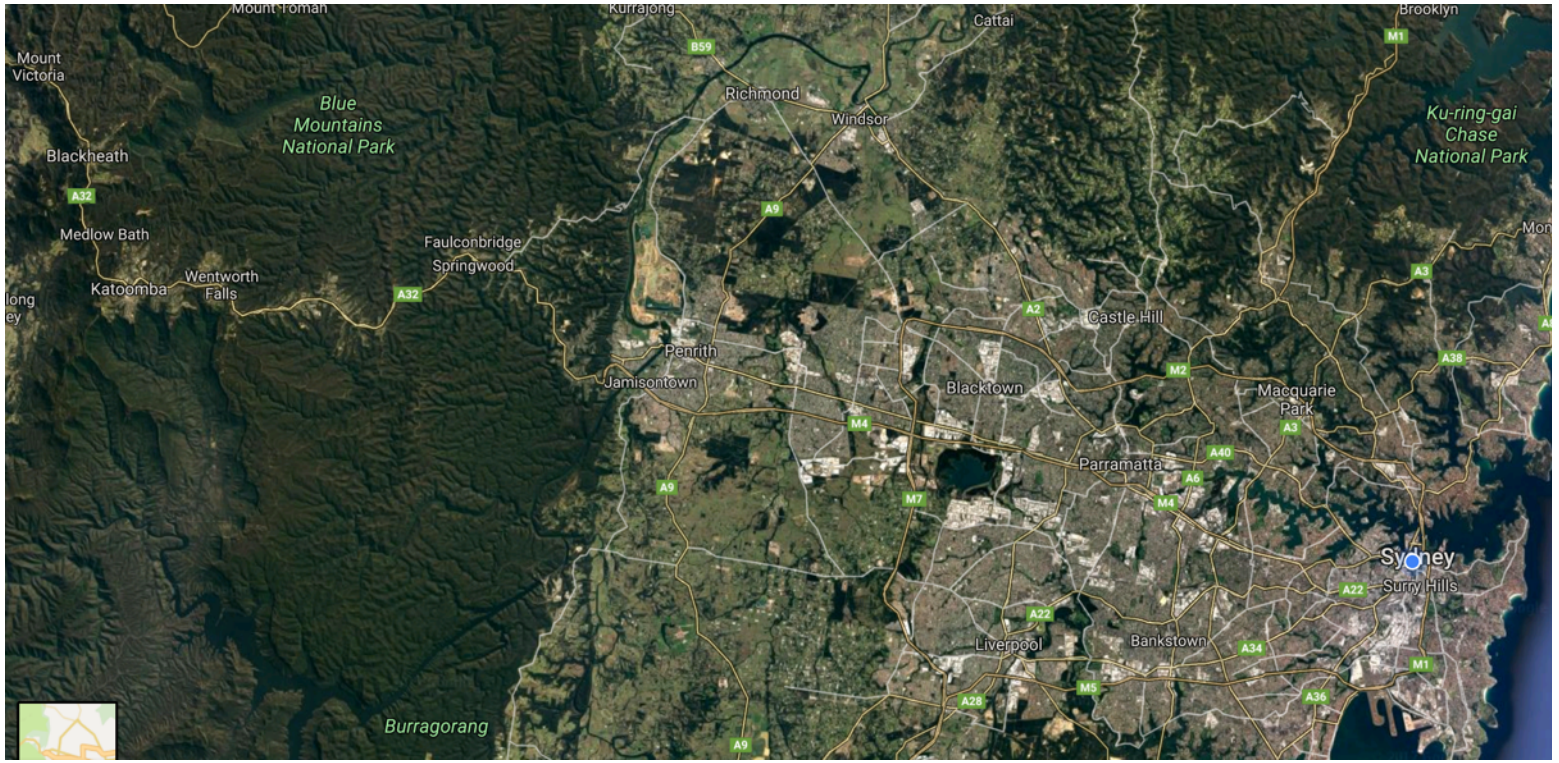
CONVERGING DATA

Over 20 years IT industry experience

12 years working with monitoring software

7 years as a team leader/manager

I live with my family in the Blue Mountains, Sydney Australia.



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Who are Converging Data

CONVERGING DATA

- Splunk Premier Partner, Reseller and professional services provider.
- Located in Australia & UK
- We have a team of 30.
- CSA, HIX connector HL7 and Healthcare Intelligence for Splunk

CommonwealthBank

BARCLAYS

Westpac

MACQUARIE BANK

Australian Government
Department of Health

The Department of Health

Australian Government
Australian Digital Health Agency

THE LONDON CLINIC

FUJITSU

nehta eHealth

NHS

gsk

accenture
High performance. Delivered.

DATACOM

splunk> POWERED RESELLER

amazon web services

EMC² BUSINESS PARTNER

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Rural Fire Service Of NSW

- The NSW Rural Fire Service (NSW RFS) is the world's largest volunteer fire service (74,162 Members). Our members provide fire and emergency services to approximately 95 percent of NSW. NSW RFS members attend a range of incidents and activities:
- Bush and grass fires
- House and structural fires
- Storm damage
- Search and rescue
- Motor vehicle accidents
- Community education
- Bush fire mitigation.

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Sydney Blue Mountains

- **Population**: 76,904 (2016)
- **Area**: 1,430 km^2 (552.1 sq mi)
- Home to the **WOLLEMI PINE**

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History

In October 2013, 210 homes were lost within the Blue Mountains due to one catastrophic, freak bushfire. My home was one of those lost.

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Start of the BAAS story

- Converging Data innovation week
- Research
- Similar products?

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Rebuilding

- New building codes
- New building materials
- Lack of Automation with Home Safety systems
- 10/50 vegetation clearing
- 10,000L (2641gal) water tanks for firefighting

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Arduino Vs Raspberry Pi

Arduino

- Cost
- Compatibility
- Splunk/ UF or HEC
- Power debt
- Size
- Limitations

Raspberry Pi

- Cost
- Compatibility
- Splunk/ UF or HEC
- Power debt
- Size
- Limitations

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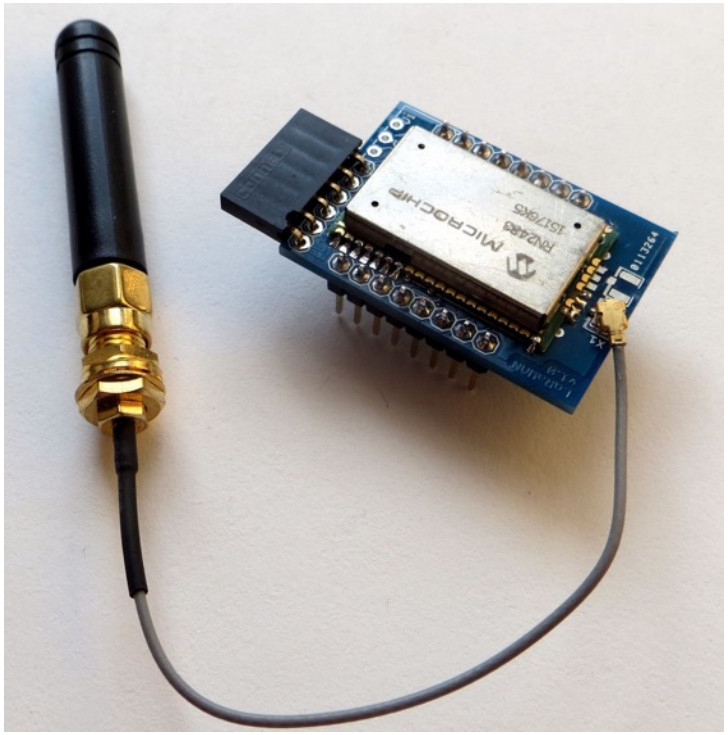
LoRaWan

- LoRa WAN
- Up 15km range
- Low power
- Compatible with Arduino and Pi



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Sensors

- Wind
- Rain
- Temperature
- Humidity
- Smoke
- UV
- Flame
- Power
- Water Tank Levels

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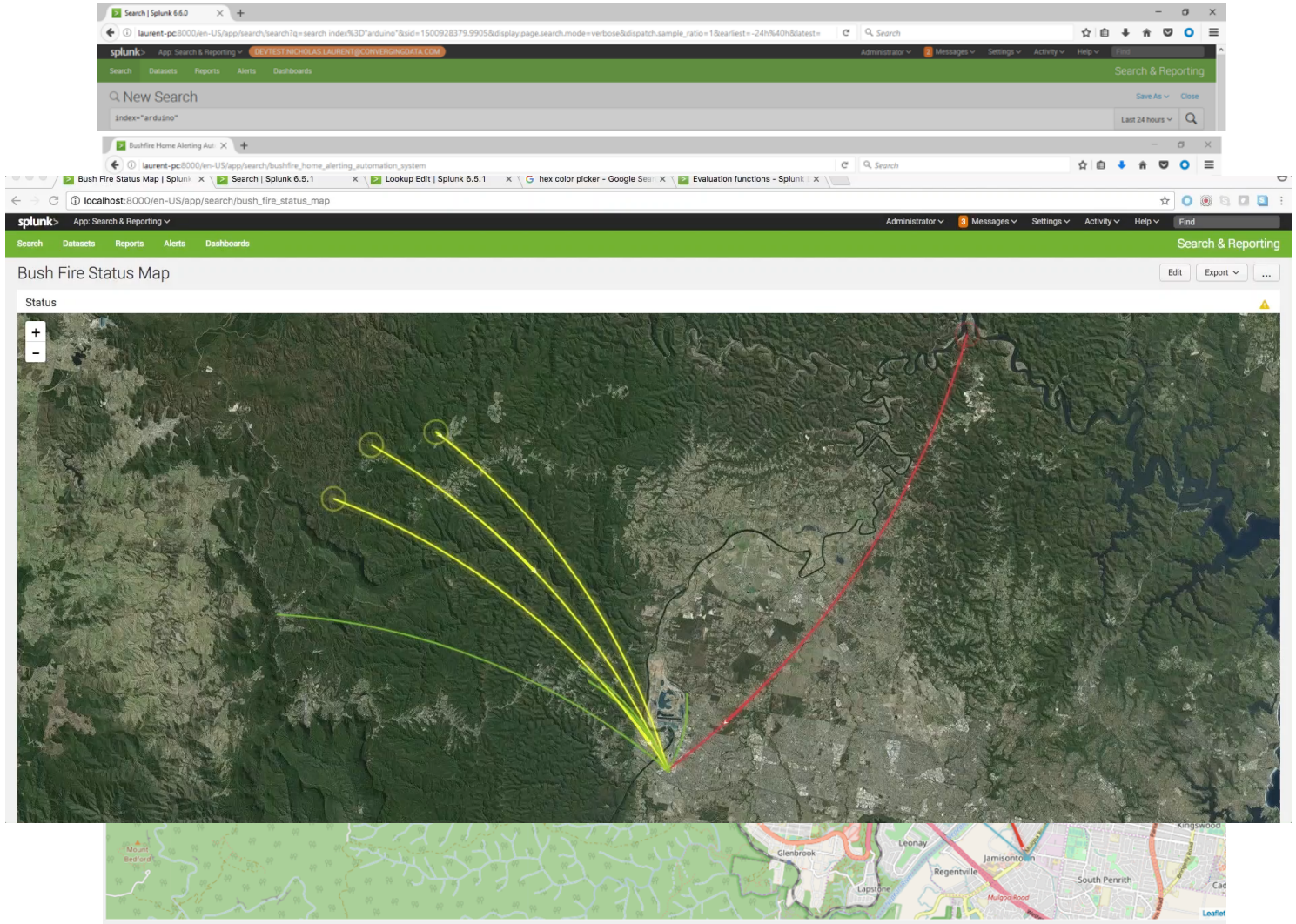
Splunk

- Getting the Data in?
- UF?
- Stream?
- HTTP Event Collector?
- Dashboards
- Google Maps
- Nice historical charts
- Email to SMS alerts configured.



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Next Stage / Field Stages

- Field trials set to start in time for upcoming fire season.
- Support from Local Schools and residents.
- 10 units to be installed over 30 km area.

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Splunk Cloud Splunk 4 Good

- Splunk Cloud is ideal for this use case.
- Provides a central point, accessible via web from anywhere.
- Confidence of being available 24/7
- Splunk Cloud is affordable and scalable.

- Splunk 4 Good
- Key points:
  - NON-Profit
  - Helping the community
- Do you have an idea for Splunk 4 Good?

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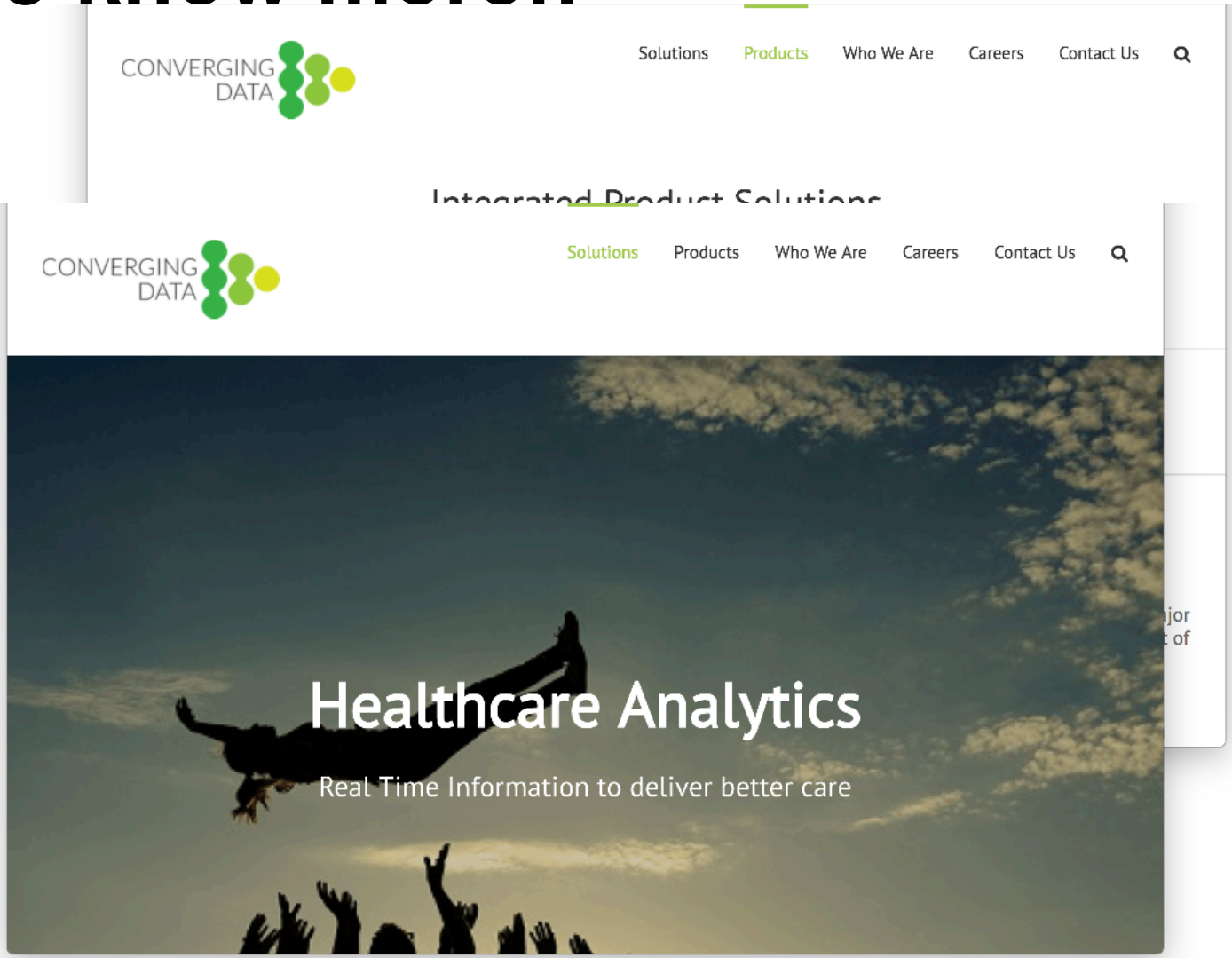
Want to know more!!

- Check us out
  www.convergingdata.com

- Email us,
  sales@convergingdata.com



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Thank You

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