

Hand held mobile data collection devices

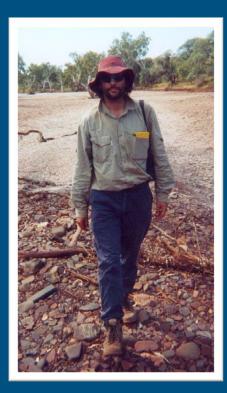


Piers Higgs Gaia Resources

Presented at Fauna Workshop, 7th July, 2016

Technology is not a magic bullet and is no substitute for experience





How many people have used hand held mobile data collections devices?



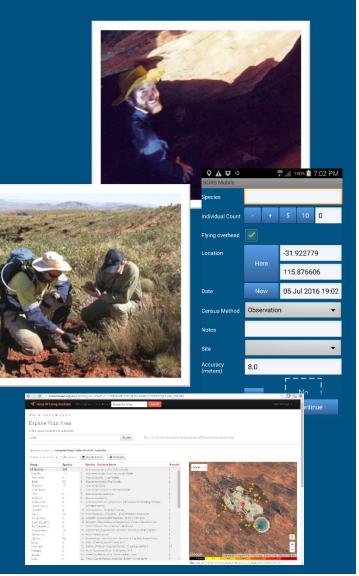


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Overview

- Introduction to Gaia Resources
- Our experience in this area
- Directions
 - Business
 - Technology
 - Data
- So what?
- Questions



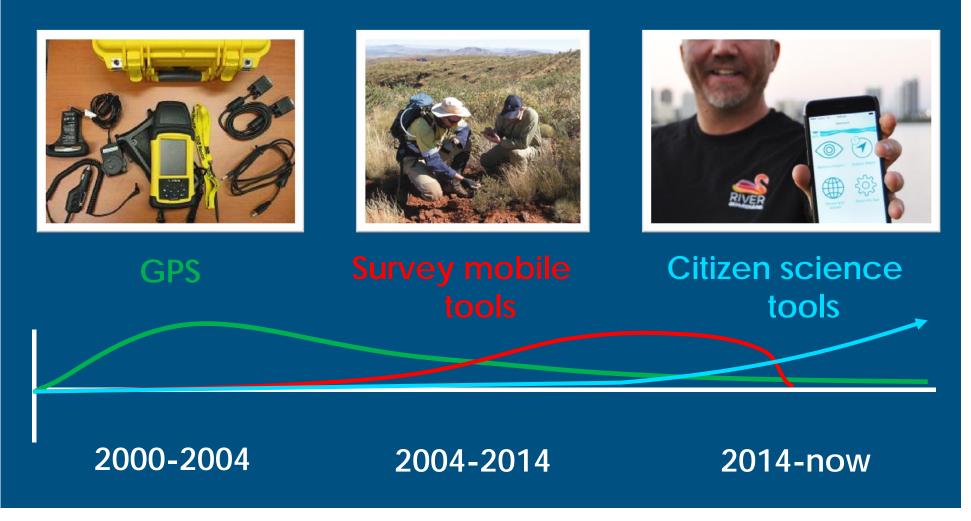
Introduction

<u>www.gaiaresources.com.au</u>

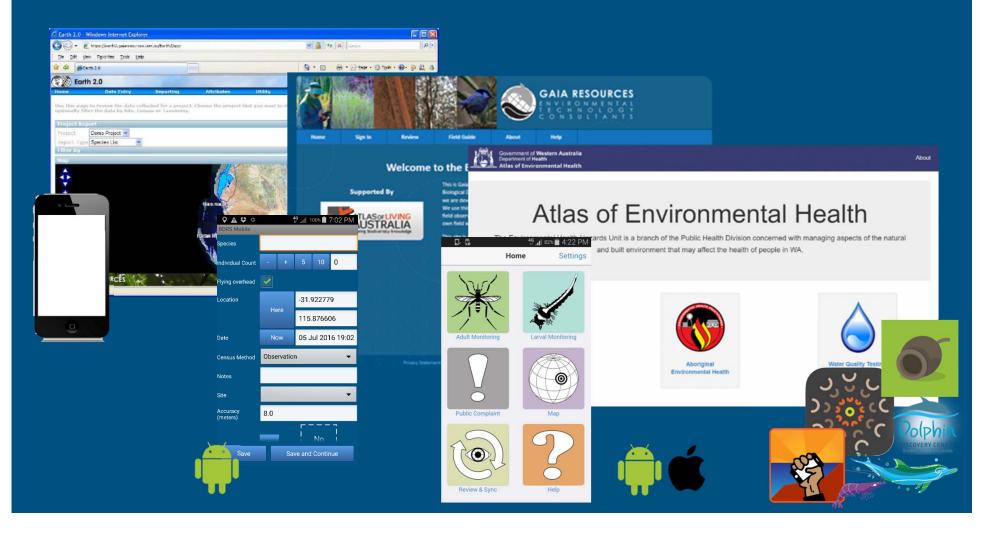
Gaia Resources is a consultancy that responsibly delivers sustainable technology solutions to companies that work with the environment.



Experience in this area



Experience in this area



Directions



Business



Technology

Data

Directions - Business

2014



What is happening to the environmental consulting industry?

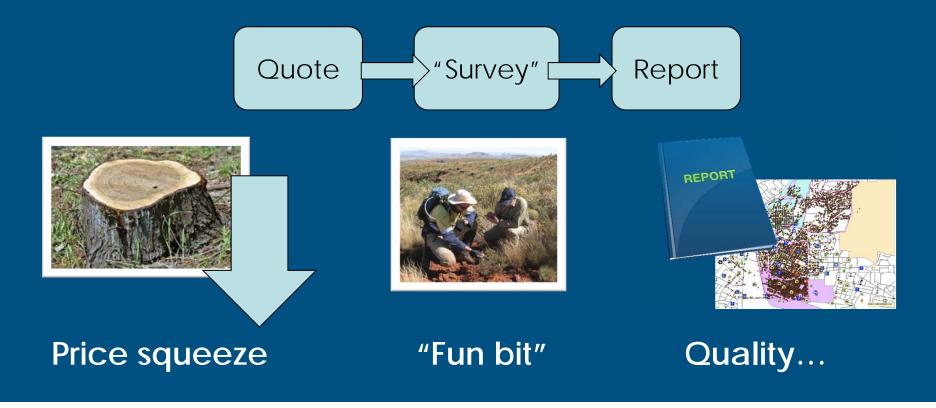


2015

Directions - Business



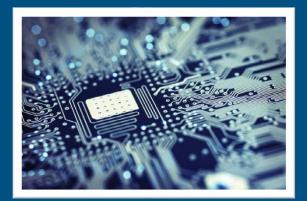
What is the business model for environmental consulting?



Directions



Business



Technology



Data

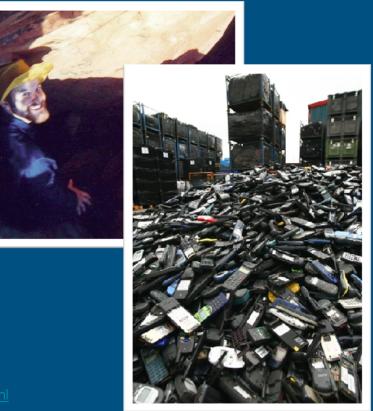
Directions - Technology

Deloitte's 2016 technology trends include:

- Blockchain
- Right-speed IT
- Augmented & virtual reality go to work
- Internet of Things: From sensing to doing
- Reimagining core systems
- Autonomic platforms
- Industrialised analytics
- Social impact of exponential technologies

http://www2.deloitte.com/au/en/pages/technology/articles/tech-trends-2016.html



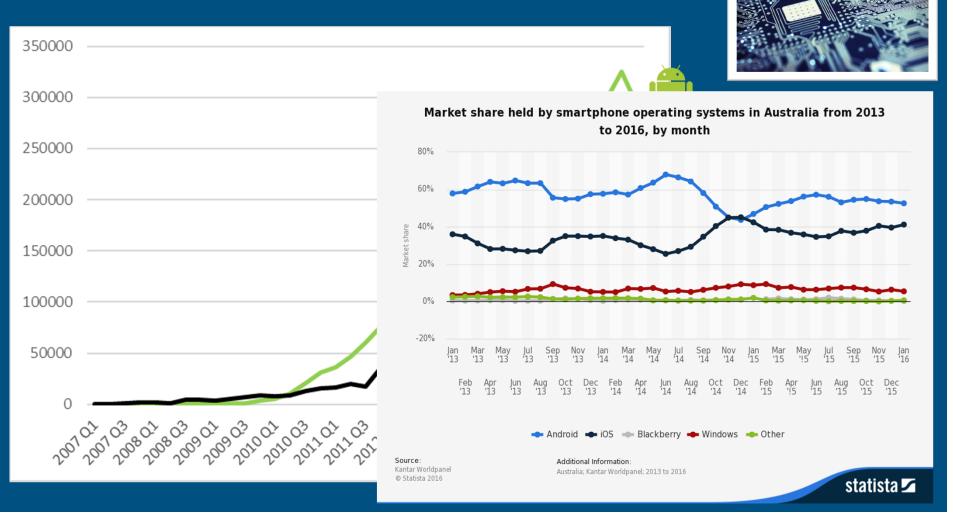


Directions – Technology

- In October, 2014 mobile phones outnumbered people in the world
- Mobile phones are breeding 5 times faster than humans
- Infrastructure that it relies upon still has some way to go



Directions - Technology



Directions



Business



Technology



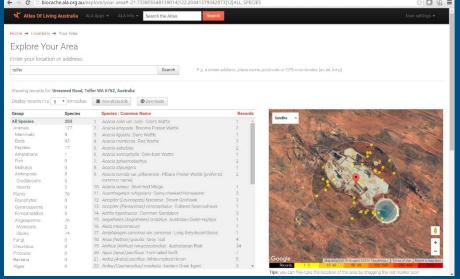
Data

Directions - Data

"Open Data" definitely a trends to consider.

- More data is becoming freely available
- More expectations that data will become "open"
- Everyone has access to this data!







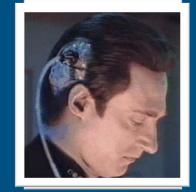
Directions



Business



Technology



Data

So what?

- Business models indicate per-project fees and squeezing prices mean that price sensitivity is key
- How do you ensure your investment helps deliver quality?
- Mobile phones are outnumbering us cheaper, faster
- Data is being driven to be more "open" how can you participate or make use of this trend?

Pricing



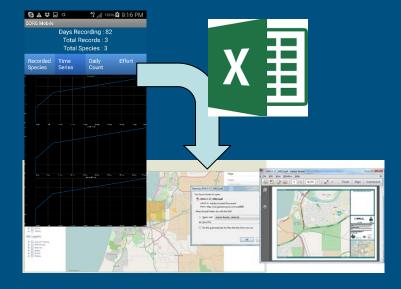
- It's all about the price... and not just for you!
- Not bespoke systems, instead looking at simple form builders (\$10-\$300/m) and free apps

	Gruntify	Fulcrum	Form.com	FormStack
Customisable interface	Yes	Yes	Yes	Yes
Mobile OS	iOS, Android	iOS, Android	iOS, Android	iOS, Android, Windows
Export formats	CSV, Shapefile, KML, Tab, DXF	Excel, CSV, Google Earth, Shapefile	Excel, CSV, SPSS, PDF	CSV, RTF (Word), Excel
API access	Yes	Yes	Yes	Yes

• This will only get you so far... e.g. taxonomic lookups

Quality

- Any mobile field systems need to be able to deliver outputs that you can use to improve the quality of outputs and give you a competitive advantage
- Make sure that your staff are doing what they are good at, and what you hired them for... don't get distracted!





Mobile phones as field data devices





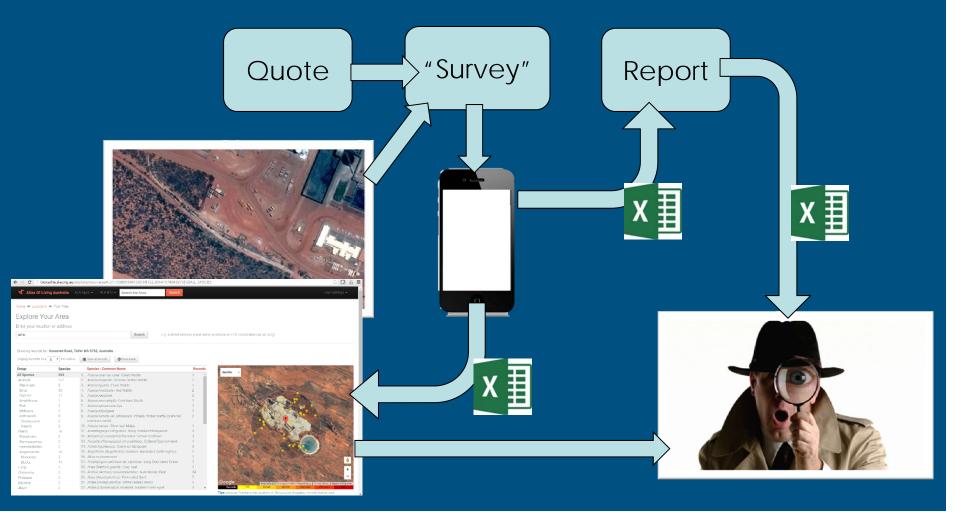
Samsung Galaxy S7 ... **\$829.00** Kogan UAG Military Standard ... \$44.00 Kogan

Then



Now

Open Data



Where can mobile data collection help?

No two "surveys"/"assessments for impacts" are the same

Mike's Levels	Description	Can it help?
Level 0.5	Desktop	Nope
Level 1	Desktop and site inspection	Maybe
Level 1.5	Desktop, site inspection, targeted assessment	Maybe
Level 2	Desktop and comprehensive assessment	Probably
Level 2a	Fauna relocation	Maybe
Level 3	Research and monitoring	Maybe

• Depends on the problem you are trying to solve: Why?





Piers Higgs (08) 92277309 or 0411 754 006 piers@gaiaresources.com.au