Emerging IoT applications in Australian agriculture

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1. What is IoT?
2. About Myriota
3. Case Study: Water Tank Monitor
4. Emerging IoT Applications
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What is IoT?

“The interconnection via the Internet of computing devices embedded in everyday objects, enabling them to send and receive data.” Oxford English Dictionary (online)
What is IoT?

“…the concept of basically connecting any device with an on and off switch to the Internet (and/or to each other).”  

*Forbes*
What is IoT?

“The IoT refers to the connection of devices (other than typical fare such as computers and smartphones) to the Internet.” Business Insider
What is IoT?

“The IoT refers to the connection of devices (other than typical fare such as computers and smartphones) to the Internet.” Business Insider
connection
connecting
interconnection
CONNECTIVITY
Out here, IoT connectivity is a challenge...

- Lack of coverage
- High cost
- Short battery life
- Lack of scalability
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Myriota has solved the remote IoT connectivity problem
• Global
• Low Cost
• Massive Scale

• Direct to Orbit
• Long Battery Life
• Satellite IoT Connectivity
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Pump and engine controllers
- Controlling engines, motors, water pumps, diesel pumps, industrial pumps

Gas meters
- Connecting gas meters

Asset tracking
- Tracking assets regardless of location

Apiary monitoring
- Monitoring bee hives

Marine monitoring
- Maritime asset monitoring

Electricity meters
- Connecting electricity meters

Agricultural sensors
- Connecting a variety of agricultural sensors and monitors

Feral animal trapping
- Monitoring feral animal traps

Commercial fishing monitoring
- Maritime tracking and compliance

Livestock ear tags
- Satellite connected livestock

Water flow meters
- Monitoring and management of water resources

Water tank monitoring
- Monitoring water tanks (and diesel tanks, and chemical tanks, and...)

Asset monitoring
- Monitor and control any asset

10km's

10km's

10km's

10km's

10m's

10m's

10m's

10m's

10m's
**Water flow meters**
Monitoring and management of water resources

**Electricity meters**
Connecting electricity meters

**Water tank monitoring**
Monitoring water tanks (and diesel tanks, and chemical tanks, and...)

**Asset monitoring**
Monitor and control any asset
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<th>Enterprise wide</th>
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<tr>
<td>- Rain Gauges</td>
<td>- Wineries</td>
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<td>- Weather stations</td>
<td>- SaaS farm management platforms</td>
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<td>- Soil moisture probes</td>
<td>- Logistics (feedlots)</td>
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<td>- Tank monitors</td>
<td>- Paddock to plate tracking</td>
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<td>- Flow meters</td>
<td>- Multi site supply forecasting</td>
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<tr>
<td>- Asset trackers</td>
<td>- Ear tags…?</td>
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<tr>
<td>- Water meters</td>
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<td>- Aquafer monitors</td>
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