Safety First – Start Card with Survey 123

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Who We Are

• WaterNSW is Australia’s largest water supplier.

• Our expert staff manage 42 large dams across NSW. We deliver water from our dams, pipelines and the State’s rivers for agriculture and drinking water supply customers.

• Two thirds of water used in NSW is supplied by WaterNSW. We also protect the health of drinking water catchments that supply among the highest quality water in the world.
Where We Are
GIS at WaterNSW

700 staff across 42 office locations
9 Geocortex channels (600+ users)
25 desktop licences (50+ desktop users)
9 GIS staff across 2 teams
4 ArcGIS servers
SQL 2012 Databases
1 Geoevent server
AGOL (26 named users)
Safety is our **number one** priority:

*Every worker*

*Every workplace*

*Every day*
• Complete a Start Card as a work group before the beginning of each shift and prior to work commencing.

• A series of questions relating to work locations and activities to determine risks and potential consequences.
Start Card Issues

- Start cards are paper based
- Stored by site manager across 65 sites for 12 months
- Est. 80,000 start cards per year
- Difficult to audit and ensure compliance
Survey123 for ArcGIS is a simple and intuitive form-centric data gathering solution that makes creating, sharing and analyzing surveys possible in just three easy steps.

1. Ask Questions
   Quickly design powerful surveys and publish them into ArcGIS.

2. Get the Answers
   Enable your workforce with the Survey123 for ArcGIS mobile app to capture answers in the field.

3. Make the Best Decisions
   Analyze answers from the field in real-time to support decision making.

http://www.esri.com/products/survey123
Start Card App- Benefits

- Suitable for all devices
- Data secure
- Works Offline
- Safety logic built into form
- Cannot be filled out retrospectively
- Easy to audit and monitor compliance
Pre program relevant

- Phone Numbers
- Emails
- Websites
- SMS

HTML formatting
Start Card – Configuration

- Easy to configure
- Make fields mandatory
- Default values
- Read only
- Predictive text
- Pre filter choices
Start Card - Location

• Allows basemaps to be installed as part of survey for offline use.

• Allows location to be locked and minimum accuracy to be set.

Location?

33°45'S 150°42'E ± 32 m

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Survey123 is very flexible and allows problems to be solved a variety of ways. For example calculating risk level:

<table>
<thead>
<tr>
<th>Likelihood (L)</th>
<th>Consequence (C)</th>
<th></th>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td></td>
<td>Negligible (1)</td>
<td>Minor (2)</td>
<td>Moderate (3)</td>
<td>Major (4)</td>
<td>Severe (5)</td>
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<tr>
<td>Likely (4)</td>
<td>Low (4)</td>
<td>Medium (8)</td>
<td>High (12)</td>
<td>High (16)</td>
<td>Extreme (20)</td>
</tr>
<tr>
<td>Possible (3)</td>
<td>Low (3)</td>
<td>Medium (6)</td>
<td>Medium (9)</td>
<td>High (12)</td>
<td>High (15)</td>
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<tr>
<td>Unlikely (2)</td>
<td>Low (2)</td>
<td>Low (4)</td>
<td>Medium (6)</td>
<td>Medium (8)</td>
<td>Medium (10)</td>
</tr>
<tr>
<td>Rare (1)</td>
<td>Low (1)</td>
<td>Low (2)</td>
<td>Low (3)</td>
<td>Low (4)</td>
<td>Medium (5)</td>
</tr>
</tbody>
</table>
Risks are integers and can be used in calculations to determine relevance.
Start Card - Web App

• Charts
• Filter and Query
• Print Templates
• Easy to configure
15 staff from operational units across NSW
189 START CARDS completed
93% of staff preferred mobile version
100% want to continue using mobile version

Survey123 is very quick to replicate an existing or deploy a new form based business process
Recommendations

- Re-analyse business process to streamline start card e.g. fewer clicks for simple tasks (driving)
- Use Geoevent (Geo Fences) to trigger alerts to site managers
- Analyse start card results to determine what risks are most common and what locations are most risky
Thank you

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