

Attachment 3 - Revised Smart City High Level Program – Years 2 & 3

Legend:

| | | | |
|----------------------|---------------|------------------|-------------------|
| ✓ Scheduled Activity | ❖ Development | Active & ongoing | ▲ Review & Update |
|----------------------|---------------|------------------|-------------------|

| Smart City Implementation Program FY17 to FY19 | FY18 Q1 | FY18 Q2 | FY18 Q3 | FY18 Q4 | FY19 Q1 | FY19 Q2 | FY19 Q3 | FY19 Q4 | Comments and Targets |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---|
| 1 Leadership | | | | | | | | | |
| Australian and International recognition and communications | | ▲ | | | ▲ | | | | Build on Intelligent Community Forum - Smart 21 to identify Australian programs – awards, major publications & forums. |
| Implement Smart City Communications Program | | ▲ | | | | ▲ | | | Complete 6 media releases, 10 Project updates, 10 articles for various internal and external publications |
| Develop region wide identification system for Smart City Solutions | | ❖ | ❖ | | | | | ▲ | Build on Smart WiFi identification program for whole of SCIP. |
| 2 Governance | | | | | | | | | |
| Use SCIP Agreement program to increase evaluations & reduce costs | ✓ | ✓ | ✓ | ▲ | ✓ | ✓ | ▲ | ✓ | Use new agreement template to prepare up to 10 new agreements each year |
| Use integrated governance model to accelerate whole of council implementation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Implement revised integrated governance and evaluation system |
| Smart Centre (operations, leases lease – Shop 3, 63 Bulcock Street, Caloundra) | ✓ | ▲ | ✓ | ▲ | ✓ | ▲ | ✓ | ▲ | Seek extensions to current funding and identify potential for an appropriate centre in the new Maroochydore City Centre |
| 3 Development of organisational capacity and capability | | | | | | | | | |
| Smart City Program awareness and training | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Continue, refine and expand where resourced 20+ Council teams/year to Smart Centre and off site to 6 Council events – eg Ignite. |
| Solutions System opportunity identification training | ✓ | | ✓ | | ✓ | | ✓ | | Continue, refine and expand where resourced |
| 4 Engagement with stakeholders and partners | | | | | | | | | |
| PPP's with infrastructure providers – Unitywater, Energex etc. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Continue to work with existing and new external partners |

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| SCIP interactive experience - Smart Centre and smart Street – Bulcock Street Caloundra | | ▲ | ✓ | ✓ | ✓ | ✓ | ▲ | | Build on existing programs and target additional demographics. Add interactive displays and virtual tours for 24/7 experience (6 new displays/Yr.) |
| Smart City Living Lab | ✓ | ▲ | ✓ | ✓ | ✓ | ✓ | ▲ | ✓ | Use integrated gateway process to progress ideas to implementation Complete five evaluations in year 2 and eight in year 3 |
| Support stakeholders and regional innovation entrepreneurs to drive jobs and business growth | ✓ | ✓ | ▲ | ✓ | ✓ | ✓ | ▲ | | Continue Smart City Meetups (4/yr), increase Open Data live feeds (6/yr), support Gov Hack and Hackfest. |
| Leverage partnership and joint funding opportunities | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Identify and apply for relevant funding and partnership opportunities. EG Australian Smart Communities Association Accelerator |
| Work with relevant Council branches to identify forwards program of Smart WiFi deployment | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Develop and implement Smart WiFi policy. Expand where viable from current 178 in 41 locations to 200/44 and 250/50 locations in years 2 and 3 respectively. |
| Using Smart Solution Systems to develop Smart City apps in collaboration with innovation and entrepreneurial sectors | ✓ | ✓ | ▲ | ✓ | ✓ | ✓ | ▲ | ✓ | Continue development of the SCC App and increase downloads and usage by 10% each year |
| Drive new investment and job creation opportunities | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | The Smart City Framework adds to the Smart Region profile for investors. Council investment in Smart City technologies adds to job creation opportunities. Links to Sunshine Coast Regional Economic Development Strategy. |
| 5 Foundation & Solution systems | | | | | | | | | |
| Smart Region Management Platform | ✓ | ✓ | ▲ | ✓ | ✓ | ✓ | ▲ | ✓ | Initial pilot version contracted and operational – Yr2 increase connected systems to 5 and 10 in years 2 & 3 and integrations – 3 and 5 in years 2 and 3 |
| Smart City Selection Guide (Formerly Technical Specification, Standards and Pricing Guide) | ✓ | ✓ | ▲ | ✓ | ✓ | ✓ | ▲ | ✓ | Launch in Q1 FY18 with 20 initiative/solutions building to 60 and 120 by the end of years 2 and 3 respectively. |
| Optic Fibre network for major urban developments and key Council developments | ✓ | ▲ | ✓ | ✓ | ✓ | ▲ | ✓ | ✓ | Identify and expand networks 2 locations, 2kms of ducting 1.5kms of fibre per year |

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| Carrier Licence Administration | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Ongoing |
| Business Plan Development & Implementation Network Audit, future expansion plan and operational governance | ✓ | ✓ | ✓ | ✓ | ✓ | ▲ | ✓ | ✓ | Complete additional research and finalise for implementation through appropriate channels. |
| Smart Public Waste | | | ▲ | | | ▲ | | | Build on AWCS by finalising public waste bin sensors and expanding to locations where they are viable. Focussed deployment of smart public bins solutions to improve waste collection, and inform future bin placement. |
| New Intelligent Systems reflecting the broad areas of: <ul style="list-style-type: none"> Data Analytics; Robotics; Automation & Machine Learning; and, Artificial Intelligence. | ✓ | ✓ | ▲ | ✓ | ✓ | ▲ | ✓ | ✓ | Develop internal and external access to advanced analytics arising from Smart WiFi and other Smart City Sensors in year 2. Measure based on number of users and number of data sets. 100 and 200 in years 2 and 3 respectively. Advance investigations in the relevance and application of robotics, automation & machine learning and, Artificial intelligence. |
| Smart Transport (including parking) | ✓ | ✓ | ✓ | ✓ | ✓ | ▲ | ✓ | ✓ | Develop specific solutions within the Smart Transport area – <ul style="list-style-type: none"> ✓ On street and off street smart parking - work with the TIM Branch to support development of the Smart Parking Technology Solution. Ensure Smart Parking is available in Maroochydore City Centre and other locations. ✓ Retractable bollards, charging stations, bike hire schemes, prepare for vehicle to other connected devices to support future autonomous vehicle networks ✓ Seek private investment in real time mobility apps like City Mapper and Rome2Rio ✓ Use of analytics to improve transport modelling and design, |

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| | | | | | | | | | ✓ Seek the opportunity to demonstrate and pilot autonomous vehicles, partnering where possible with TMR |
| Tourism and Events | ✓ | ✓ | | | | ▲ | | | Work to install Smart LED and Smart WiFi providing additional features in SC Stadium and other locations by end of year 2. Expand across additional locations in year 3. Seek to increase venue revenue and improve user experiences. |
| Smart Lighting | | ✓ | ✓ | ✓ | | | | | Expand Smart (connected) LED luminaires in street lighting, paths, parks and for artistic purposes - permanent and temporary (like Sydney Vivid). Evaluate connected LED options and grow from current nil to 50 connected LED's by end of year 2 and 150 by end of year 3 |
| Smart Water Program | | ✓ | ✓ | ✓ | ✓ | | | | Identify and implement irrigation managing systems connected to the Smart Region Management Platform and provide centralised control. Reduce infield staff time Identify and implement environmental water sensors to improve data and rate of collection, saving in field time. |
| Smart Closed Circuit Television (CCTV) & Vision | | ✓ | ✓ | ✓ | ✓ | ✓ | | | Draw on the Living Lab trial of data analytics based cameras to inform Council wide use (where relevant and approved) |
| Smart Digital Signage | | ✓ | ✓ | ✓ | ✓ | ✓ | | | Commercial Branch exploring revenue models from digital advertising in various locations- report on progress. Council is developing digital way finding (combined with static way finding for the wider Maroochydore City Centre. Progress 3 digital wayfinding sites with regional information and creative options to deliver a unique SC experience Stockland seeking digital signage to display smart city information – real time weather, usage other features etc. – to be installed in the Town Centre Park – part of agreement to install SC Smart City Solutions |
| Smart Buildings and | | ✓ | ✓ | ✓ | ✓ | ✓ | | | Explore Smart Building Solutions for use in MCC and across the region. |

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|--|---------|---------|---------|---------|---------|---------|---------|---------|--|--------------------|--------|--------|--------|---|----|----|----|---|----|----|----|---|-----|-----|-----|
| Building Information Modelling (BIM) | | | | | | | | | Expand on the use of BIM in MCC to other locations. From 1 to 3 in year 2 and 6 in year 3. | | | | | | | | | | | | | | | | |
| Smart Power and Energy | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Pursue in year 3 – proposed energy capture, storage and use to drive savings are developed and implemented – eg Aquatic centres and other strategic sites. | | | | | | | | | | | | | | | | |
| Smart Sound | | | | ✓ | ✓ | ✓ | ✓ | | Pursue in year 3 | | | | | | | | | | | | | | | | |
| Smart Sensors | | | | | ✓ | ✓ | ✓ | ✓ | Pursue in year 3 | | | | | | | | | | | | | | | | |
| Smart Health | | | | | ✓ | ✓ | ✓ | ✓ | Pursue in year 3 | | | | | | | | | | | | | | | | |
| Smart Education | | | | | ✓ | ✓ | ✓ | ✓ | Pursue in year 3 | | | | | | | | | | | | | | | | |
| 6 Capital Works and Operational Projects | | | | | | | | | | | | | | | | | | | | | | | | | |
| Projects assisted and continuing in year 2 – FY18 | | | | | | | | | Targets – Years 1-3 <table border="1"> <thead> <tr> <th>Target Description</th> <th>Year 1</th> <th>Year 2</th> <th>Year 3</th> </tr> </thead> <tbody> <tr> <td>Capital and Operational Projects with SCIP consultation</td> <td>20</td> <td>40</td> <td>80</td> </tr> <tr> <td>Specific solutions in Council Projects – planned and/or implemented</td> <td>25</td> <td>60</td> <td>90</td> </tr> <tr> <td>Total number of IoT devices and sensors</td> <td>200</td> <td>400</td> <td>650</td> </tr> </tbody> </table> | Target Description | Year 1 | Year 2 | Year 3 | Capital and Operational Projects with SCIP consultation | 20 | 40 | 80 | Specific solutions in Council Projects – planned and/or implemented | 25 | 60 | 90 | Total number of IoT devices and sensors | 200 | 400 | 650 |
| Target Description | Year 1 | Year 2 | Year 3 | | | | | | | | | | | | | | | | | | | | | | |
| Capital and Operational Projects with SCIP consultation | 20 | 40 | 80 | | | | | | | | | | | | | | | | | | | | | | |
| Specific solutions in Council Projects – planned and/or implemented | 25 | 60 | 90 | | | | | | | | | | | | | | | | | | | | | | |
| Total number of IoT devices and sensors | 200 | 400 | 650 | | | | | | | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> ✓ Maroochydore City Centre ✓ Smart Urban Demonstration and Testing Facility - Bulcock St Streetscaping – Australian First ✓ Development of Smart Solution Portfolio ✓ Mooloolaba Holiday Parks (Smart WiFi) ✓ Alex Skate Park 16/17 – 17/18 ✓ Palmwoods Town Centre Streetscaping Mooloolaba Foreshore ✓ Stockland Aura (Caloundra South) & Palmview ✓ Sunshine Coast Sports Stadium Solution Portfolio ✓ Evans St Lane / Road Upgrade ✓ Nambour Tram Project ✓ Pacific Paradise Streetscape ✓ Parks and Gardens – Centralised Irrigation Control System ✓ Minyama > Mooloolaba Cycleway – LED lighting on the Bridge | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| The Smart City Selection Guide (formerly Standards, Tech Specs and Pricing Guide) will begin to provide informed options, identify solutions in the pipeline and solutions that are not suitable on the Sunshine Coast. | | | | | | | | | | | | | | | | | | | | | | | | | |

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| <ul style="list-style-type: none"> ✓ Caloundra Indoor Cricket – Smart WiFi ✓ Sippy Downs Drive Lane / Road Upgrade ✓ Plus other projects not listed here Projects identified for assistance in year 3 – FY19 <ul style="list-style-type: none"> ✓ List to be added in FY18 Q4 following adoption of the council budget | | | | | | | | | |
| Planning Scheme requirements for Smart City | | | | | ✓ | ✓ | | | Work with the Strategic Planing team to identify planning scheme amendments to support SCIP via Development Assessment. |