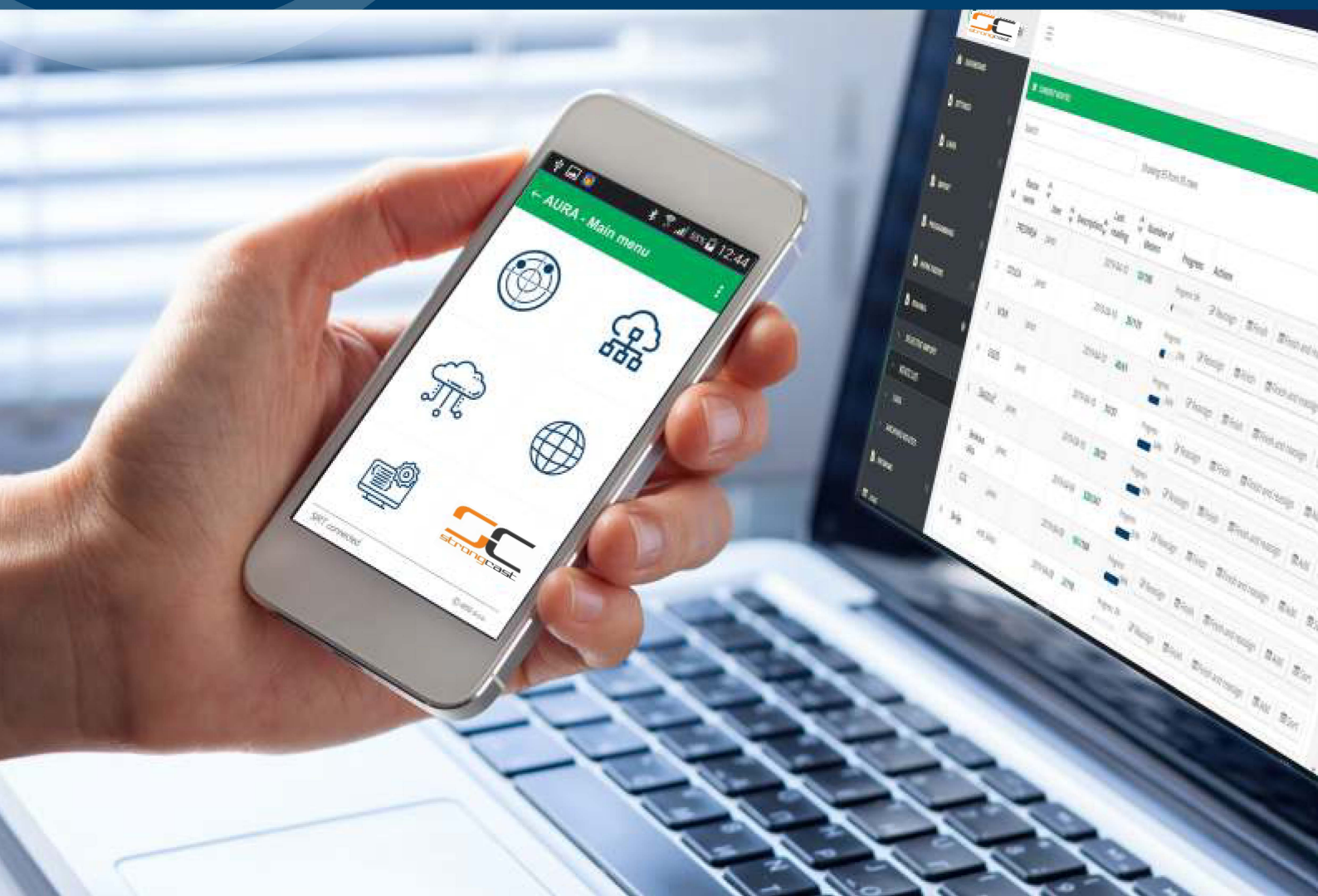




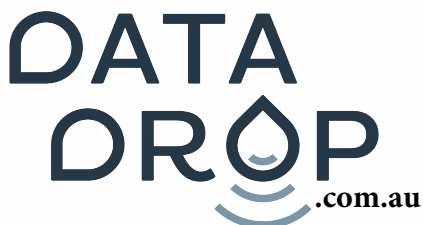
AURA

Software solution supports:

- ▶ manual or remote water meter reading
- ▶ process of water meter replacement or installation



Powered by



AURA is a software solution with different mobile applications which are designed to support manual or remote meter reading, modul programming and installation, inventory list of water meters and creating variety of analysis.

Individual AURA mobile application:

- ▶ AURA Programming
- ▶ AURA Diagnostics
- ▶ AURA Collector
- ▶ AURA Mapping & Assist
- ▶ AURA Network

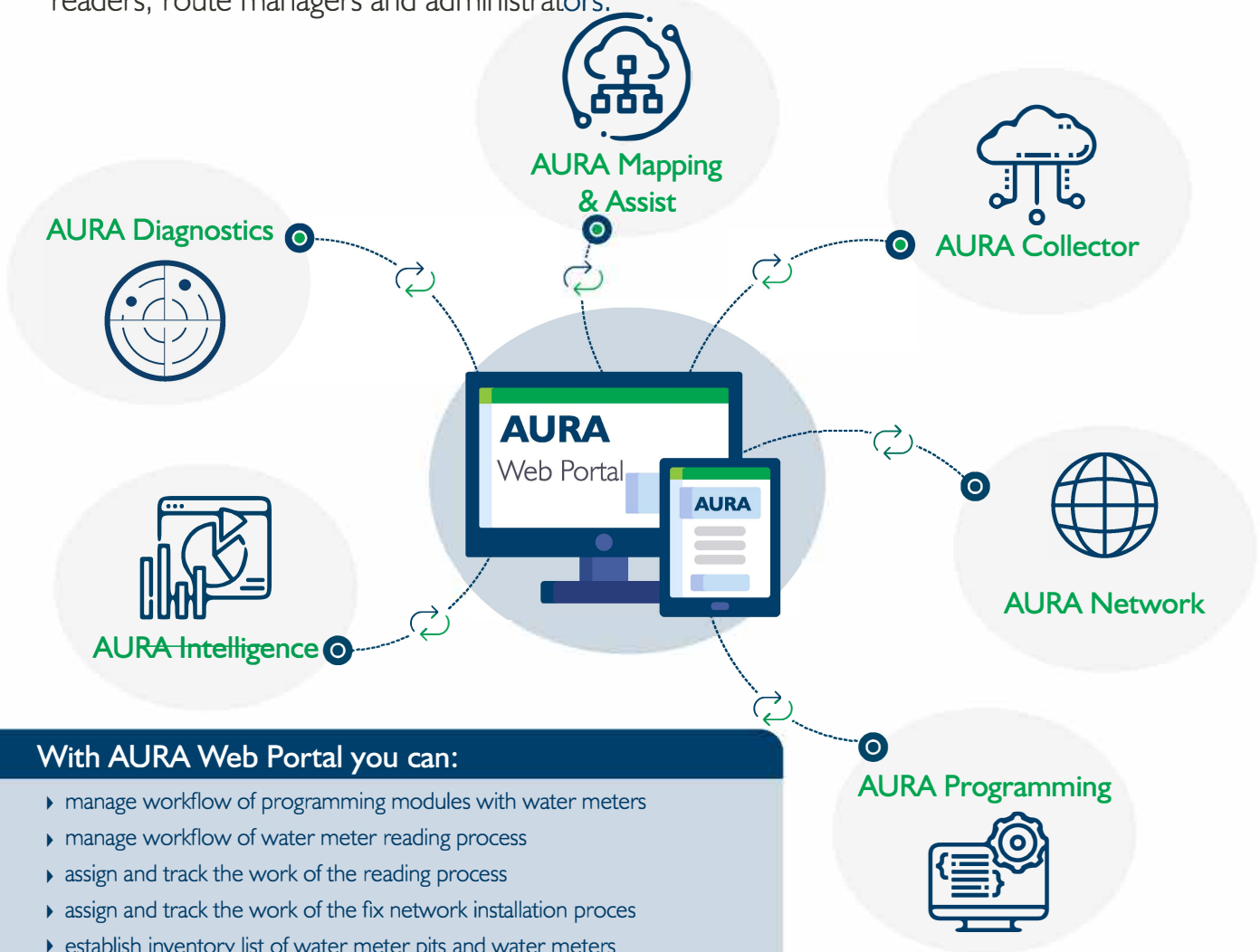


AURA
Portal



AURA

AURA mobile applications run on smartphones (Androids) and tablets. They can be used in combination or individually. They are designed for water meter installers, water meter readers, route managers and administrators.



With AURA Web Portal you can:

- ▶ manage workflow of programming modules with water meters
- ▶ manage workflow of water meter reading process
- ▶ assign and track the work of the reading process
- ▶ assign and track the work of the fix network installation proces
- ▶ establish inventory list of water meter pits and water meters
- ▶ create reports and provides exchange with the billing
- ▶ customize configuration parameters
- ▶ define Aura settings



◎ AURA MAPPING & ASSIST

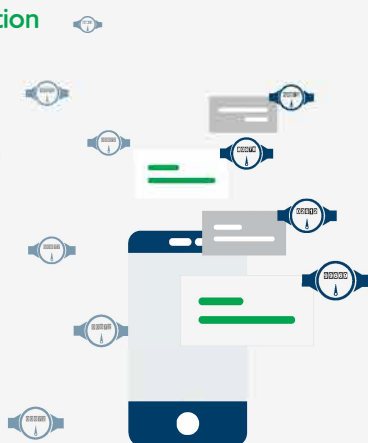
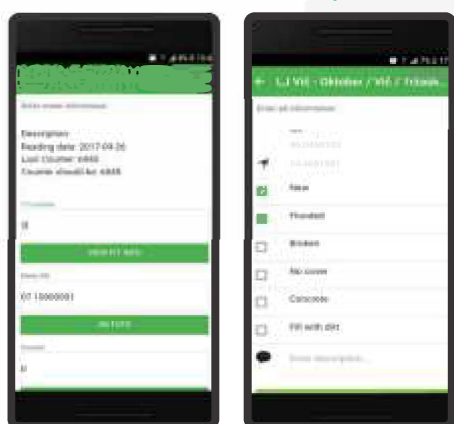
Mobile Application



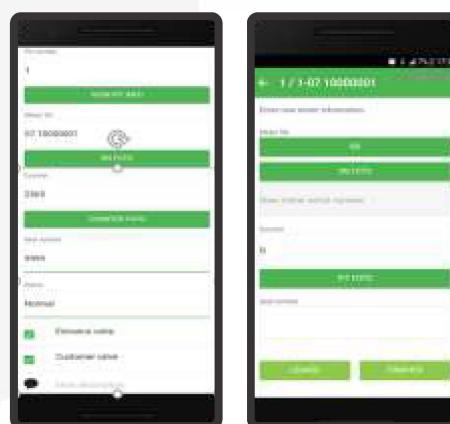
Android based mobile application helps the installers during the water meter change process (capturing old and new water meter information with photos).

Multiple-user application allows quicker process of water meter change (in the same time many different users can save and exchange data from the field with the web portal directly).

Information about the status and location of the water meter and its pit



Detailed information captured for the old and the new water meter



◎ AURA COLLECTOR

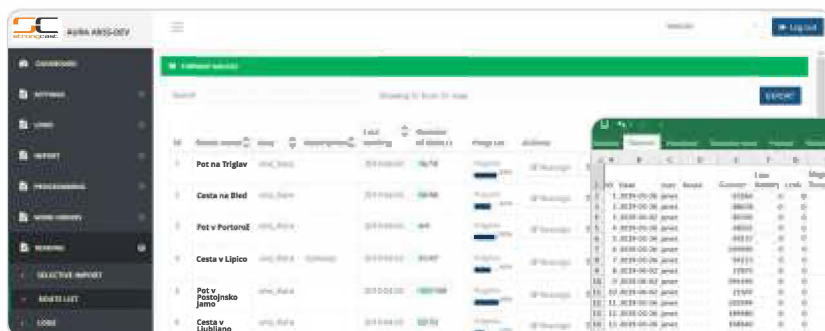
Web Portal



Route List (follow up of progress of each reader or Gateway by each area/route).

List of archived routes (number of read water meters and when the reading was completed).

Route list



Read-outs with information (counter value, events/alarms, site ID, etc...)

ID	Year	Month	Day	Hour	Counter	Event	Alarm	Site ID	Address	Area	Route	Status	Progress	Comments
1	2019	09	26	10:00	123456	0	0	123456789	123456789	Area 1	Route 1	Completed	100%	
2	2019	09	26	10:05	123457	1	0	123456789	123456789	Area 1	Route 1	In Progress	50%	Event 1
3	2019	09	26	10:10	123458	0	1	123456789	123456789	Area 1	Route 1	Failed	0%	Alarm 1
4	2019	09	26	10:15	123459	0	0	123456789	123456789	Area 1	Route 1	Completed	100%	
5	2019	09	26	10:20	123460	0	0	123456789	123456789	Area 1	Route 1	Completed	100%	

AURA COLLECTOR

Mobile Application

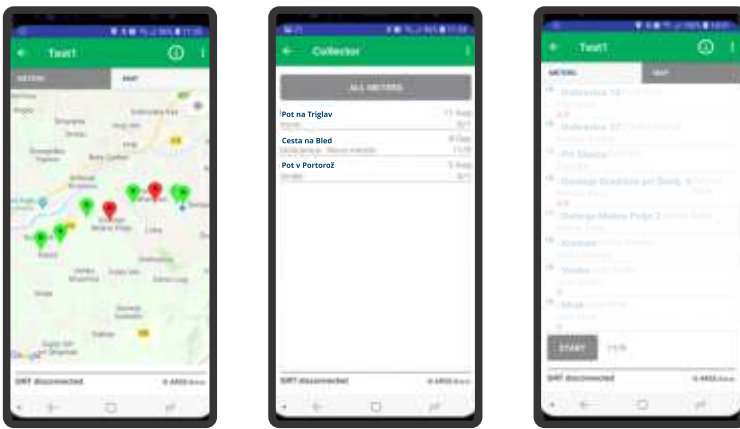


For Drive/Walk by reading:

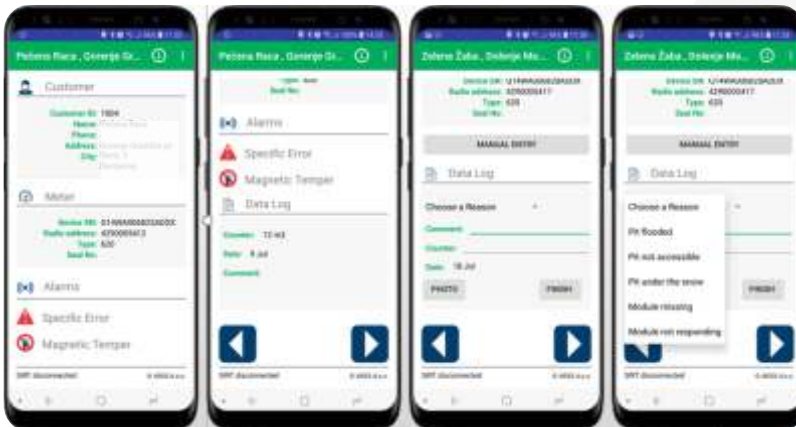
- ▶ Automatic capturing of read-outs.
- ▶ Manual entry of each water meter status in case they can not be read through the radio signal.

Synchronization between mobile app and web portal (readers progress visible by each route after each synch – no need for the reader to come back to the office).

Report about pit status (all information captured by mobile app)



Report about changed water meters



network



drive-by



walk-by

⦿ AURA NETWORK

Web Portal



Information about repeaters status are captured:

- ▶ Location.
- ▶ Number of devices (end-points or/and repeaters) each repeater covers.
- ▶ When and by who it had been installed.
- ▶ Battery life time of the repeater.

Captured information about installed repeaters
(web view or excel report)

Repeater number	Number of repeaters	Number of accounts	Number of all devices	Address	Description	Unit	Image	Year	Serial	Sub-Com	Latitude	Longitude	History
2000000000	5	0	5		Emergency Center				2019-05-11	1818176	46		
2000000001	12	0	12						2019-05-11	1818176	26		
2000000004	12	0	12						2019-05-11	1818176	26		
2000000010	14	0	14						2019-05-11	1818176	27		
2000000015	11	0	11						2019-05-11	1818176	13		
2000000016	30	0	30						2019-05-11	1818176	17		
2000000017	14	0	14						2019-05-11	1818176	18		
2000000018	17	0	17						2019-05-11	1818176	18		
2000000019	10	0	10						2019-05-11	1818176	18		
2000000020	9	0	9						2019-05-11	1818176	18		
2000000021	14	0	14						2019-05-11	1818176	18		
2000000022	14	0	14						2019-05-11	1818176	18		
2000000023	11	0	11						2019-05-11	1818176	18		
2000000024	11	0	11						2019-05-11	1818176	18		
2000000025	12	0	12						2019-05-11	1818176	18		
2000000026	7	0	7						2019-05-11	1818176	18		
2000000027	11	0	11						2019-05-11	1818176	18		
2000000028	14	0	14						2019-05-11	1818176	18		
2000000029	14	0	14						2019-05-11	1818176	18		
2000000030	11	0	11						2019-05-11	1818176	18		
2000000031	11	0	11						2019-05-11	1818176	18		
2000000032	11	0	11						2019-05-11	1818176	18		
2000000033	11	0	11						2019-05-11	1818176	18		
2000000034	11	0	11						2019-05-11	1818176	18		
2000000035	11	0	11						2019-05-11	1818176	18		
2000000036	11	0	11						2019-05-11	1818176	18		
2000000037	11	0	11						2019-05-11	1818176	18		
2000000038	11	0	11						2019-05-11	1818176	18		
2000000039	11	0	11						2019-05-11	1818176	18		
2000000040	11	0	11						2019-05-11	1818176	18		
2000000041	11	0	11						2019-05-11	1818176	18		
2000000042	11	0	11						2019-05-11	1818176	18		
2000000043	11	0	11						2019-05-11	1818176	18		
2000000044	11	0	11						2019-05-11	1818176	18		
2000000045	11	0	11						2019-05-11	1818176	18		
2000000046	11	0	11						2019-05-11	1818176	18		
2000000047	11	0	11						2019-05-11	1818176	18		
2000000048	11	0	11						2019-05-11	1818176	18		
2000000049	11	0	11						2019-05-11	1818176	18		
2000000050	11	0	11						2019-05-11	1818176	18		

Information about all the devices under each repeater
(web view or excel export)

ID	Radio address	Date	Updated	RSR	Device status	Repeater
1	120000004	2019-02-20 14:29:00	2019-02-20 14:32:38		not reported	repeater
2	130000010	2019-02-20 14:29:00	2019-02-20 14:32:38	33.0M	not reported	repeater
3	140000016	2019-02-20 14:29:00	2019-02-20 14:32:38	33.0M	not reported	repeater
4	200000004	2019-02-20 14:29:00	2019-02-20 14:32:38		not reported	repeater
5	200000005	2019-02-20 14:29:00	2019-02-20 14:32:38		not reported	repeater
6	200000009	2019-02-20 14:29:00	2019-02-20 14:32:38	8.0M	not reported	repeater
7	200000017	2019-02-20 14:29:00	2019-02-20 14:32:38		not reported	repeater

⦿ AURA NETWORK

Mobile Application



Android based mobile app allows installers to easier facilitate the installation of the fix network.

Basic and advanced network installation mob app are useful tools of building and capturing information from and on the field.

Activating the repeater and capturing information about installed repeaters (geo location, serial number of installed repeater, devices visible by defined repeater, etc.).

Automatic exchange of the information between mob app and web portal after synchronization of data, provides to follow the progress of the installers on the field.



◎ AURA DIAGNOSTICS

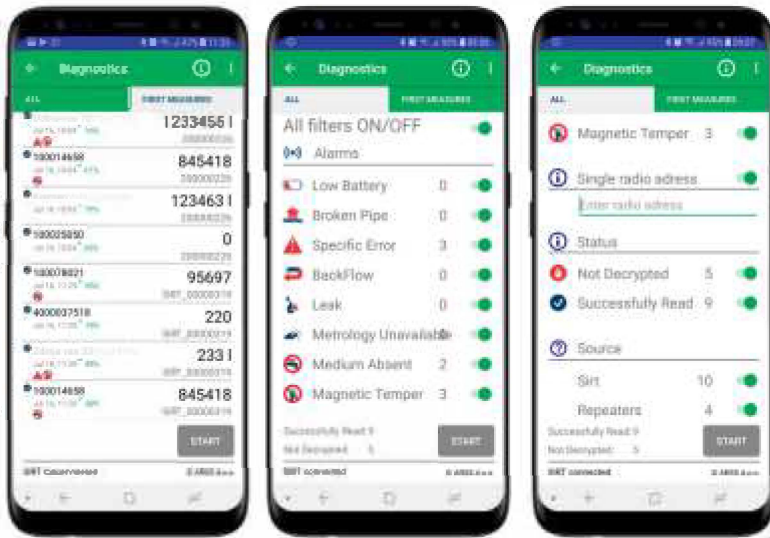
Mobile Application



Mobile application which detects, locates and read any meter with radio signal within the range of radio transceiver (WDCR or SIRT device).

Possibility to read water meter anytime w/o route preparation (with SensusRF or wMBus signal), check radio connectivity, signal strength and to read events on the water meter.

List and filtering of received information



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