



## ***Smart Asset Optimization for Distributed Control Networks***

AGM is offering its knowledge and solutions in communications and control, and 33 years of experience in **economical optimization, retrofit and upgrading** projects for SCADA/DCS networks for Water /Wastewater, Oil & Gas, Environmental telemetry, Power Sub-stations and Irrigation.

Using COTS (Commercial Off The Shelf) products and retaining existing investment in equipment and worker training enables AGM to offer smart, economical upgrade and optimization solutions in line with evolving technologies and changing business requirements.

AGM's solutions serve:

- Water and waste-water pumping stations' automation
- Pipeline monitoring and control
- Asset optimization and integrity management of utilities distributed control systems (DCS)
- New Preventive Maintenance application as stand-alone or integrated solution

To offer better solutions, AGM has developed an add-on element: an original communication management unit to be installed at the remote field stations between the PLC/RTU and the communication transceiver (RF and/or cellular or other), empowering the distributed system, making each station smarter and having the dramatic impact the PC revolution had on the "dumb terminals" organizational environment in the 1980s.

This original product, called **R-Win**, enables smart, gradual and economical SCADA/DCS network optimization and upgrading for existing and new systems.

Client benefits from **AGM's asset optimization solutions, the R-Win way**, include:

- a) Communication resilience by lateral communication (MESH). Each remote pumping or monitoring station is able to carry out two-way, real-time communication with neighboring stations and the control center. Each station can serve as a wireless network router (bridge, S&F). Each site (pumping station, control unit, piping hub, etc.) can have both cellular and RF communication, dual SIM networks and secure remote configuration.
- b) All stations can initiate communication; control center polling is not needed; local/regional autonomous control processes are a standard option.
- c) Implementation of modern, high level data security.
- d) Existing system equipment and applications, at SCADA center and remote stations, stay in place.
- e) Internet access capability is an option for all stations under security limitations. Your server is the network manager; there is no need for third-party service except for your cellular communication provider.
- f) Integration with Preventive Maintenance applications.

- [Client upgrade case story](#) includes a link to R-Win technical review
- Distributed control network, the [R-Win system architecture drawing](#)
- [GE Letter of Recommendation](#)