



# Water Management & Irrigation Control Systems

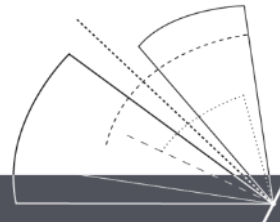
■ Take Control!

# ■ The Mottech Solution



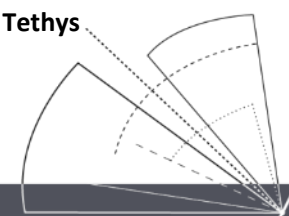
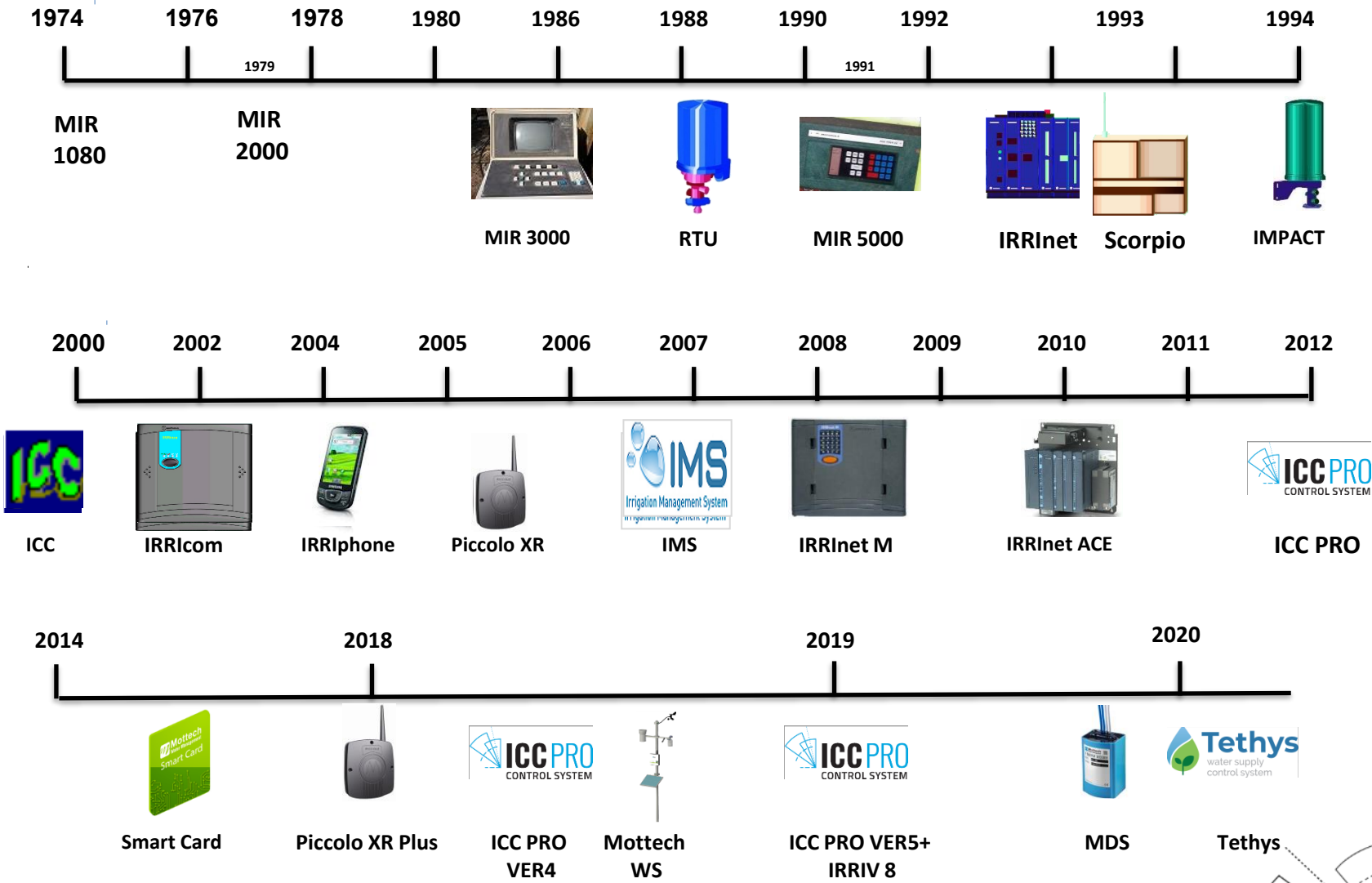
- Mottech is the worldwide master distributor of Motorola's innovative, proven and reliable IRRInet platform
- Cutting-edge remote-control solutions for irrigation and water applications
- Powered by the Motorola IRRInet platform and Mottech innovation software - ICC PRO

## ■ Take Control!





# Mottech/Motorola solutions over time

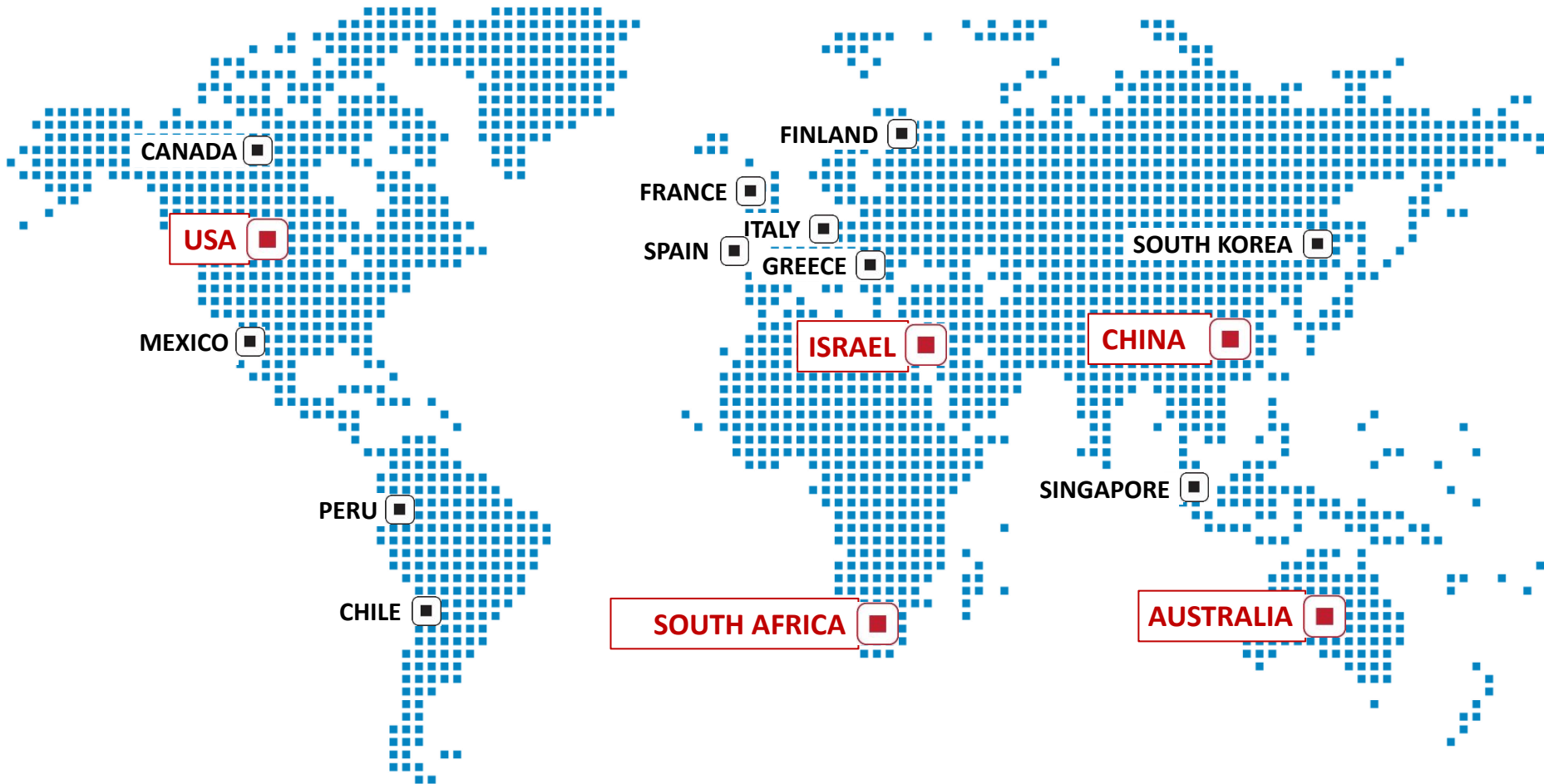


# The Mottech Solution



- Over 35 years of experience in developing, manufacturing, and installing computerized irrigation and water control systems worldwide
- Joint and continuous developing of new and advanced products under the highest quality standards

- Global Presence, Distribution and Support
- Supply, Design, Integration, Support, Service and Training







# Market Segments

Comprehensive, professional irrigation and water control systems for:



Agricultural  
Irrigation



Turf &  
Landscape



Water  
Supply



# Remote Control

- Valves
- Water Pumps
- Filters
- Fertilizers
- Lights
- Boom Gates
- Center Pivot



# Remote Monitoring

- Valve status
- Pump status
- Water flow
- Water level
- Water quality
- Soil moisture
- Weather stations
- Power use





# Technology – System Structure



IRRI net ACE



ICC PRO  
Central Software



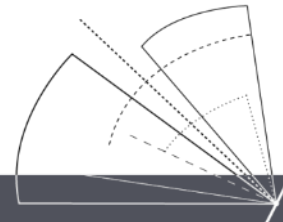
Piccolo XR



Remote Devices



IRRI net M





# The Mottech Solution

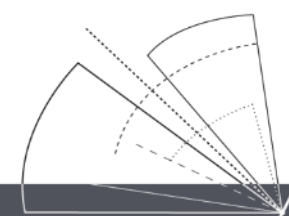
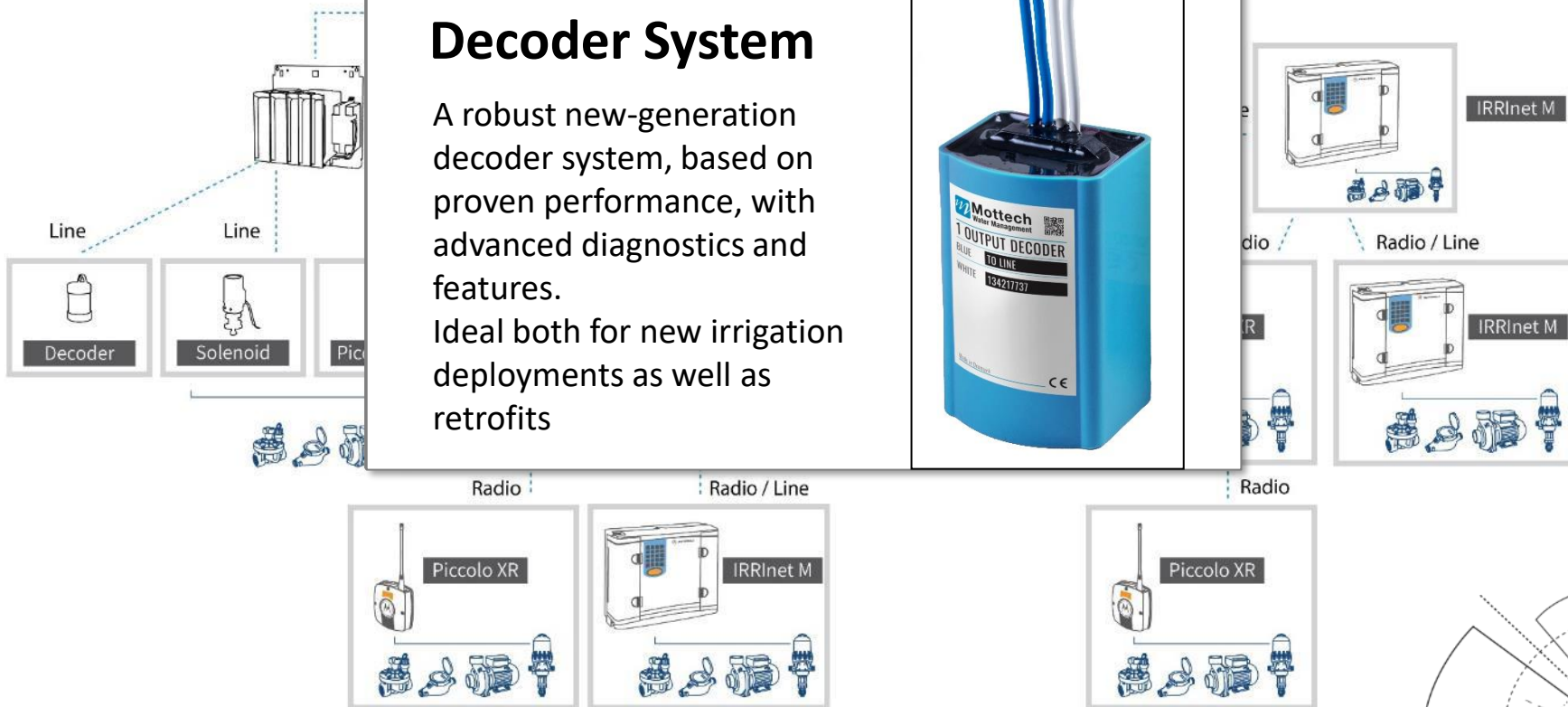


## ICC PRO - CONTROL CENTER

Control Center  
Managed Areas

### Decoder System

A robust new-generation decoder system, based on proven performance, with advanced diagnostics and features. Ideal both for new irrigation deployments as well as retrofits



# ■ Mottech CAS Advantages (Complete Assembly Set)

- Installation-Ready Products
- High Grade Quality
- High Standards for Service and Maintenance



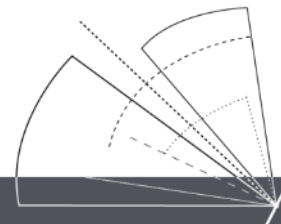
IRRInet ACE



IRRInet M

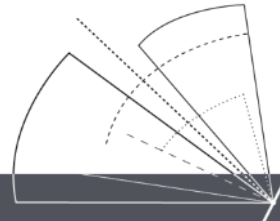
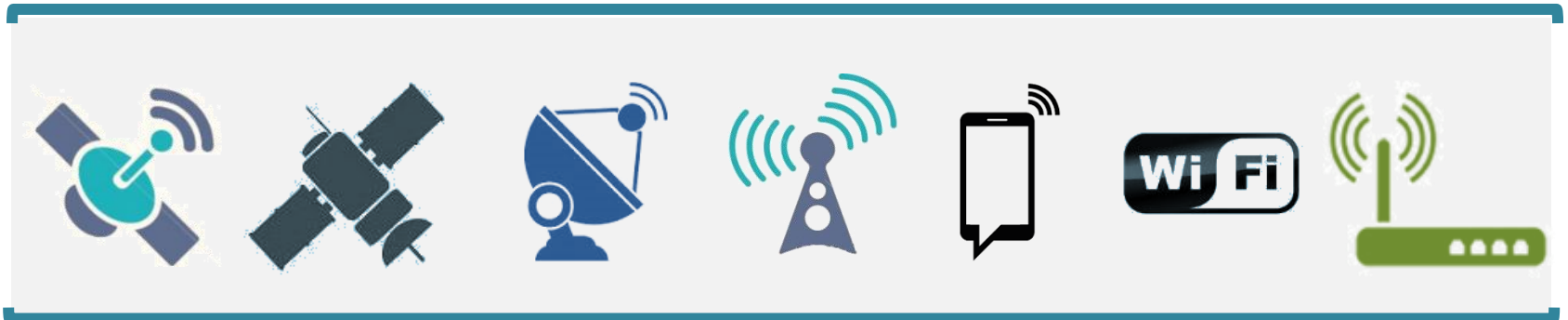


PICCOLO-XR



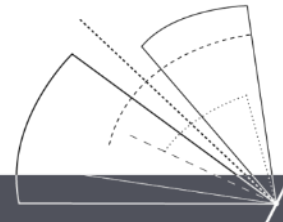
# Communication Options

- Radio
- Cellular
- Line (Line, RS232, RS485)
- Computer Network (Ethernet LAN/WAN)



# ■ Mottech Decoder System (MDS)

- Available in 1, 2, 4 and 6-output models
- Sensor Decoders (Digital Pulse or Contact, Analogue 4-20mA or 0-5/10V)
- Dedicated Surge Protection Decoders
- Up to 30 Concurrent Activations
- Extra-Low Current Draw
- Proven Reliability
- Advanced Diagnostics

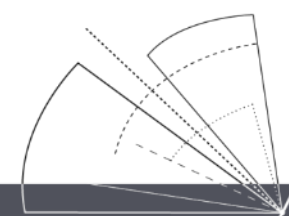






# Mottech Decoder System Diagnostics

Diagnostic features	Rain Bird FD Decoder	New MDS Decoder Technology
Is the 2-wire in a short-circuit ?	Yes	Yes
Did the decoder turn-on (by current increase) ?	Yes	Yes
Did the decoder turn on (ACK/NAK) ?	-	Yes
Leakage to ground from the 2-wire	-	Yes
Leakage to ground from the solenoid	-	Yes
Damaged Wires	-	Yes
Bad Splices	-	Yes
Coil Status	-	Yes
Coil degradation	-	Yes
Lightning damage to wire, decoder or coil	-	Yes
Finding the decoders (decoder plug-and-play)	-	Yes
Fast diagnostics of the system	-	Yes
Optimizing speed of communication to decoders	-	Yes





# View MDS Real-Time Parameters in ICC PRO

- At the Module:
  - Two-Wire Current
  - Two-Wire Voltage
  - Module Status
- At the Decoder:
  - Decoder Temperature
  - Decoder Voltage
  - Earth Leakage
  - Decoder Status
  - I/O Configuration
  - Decoder Address

