

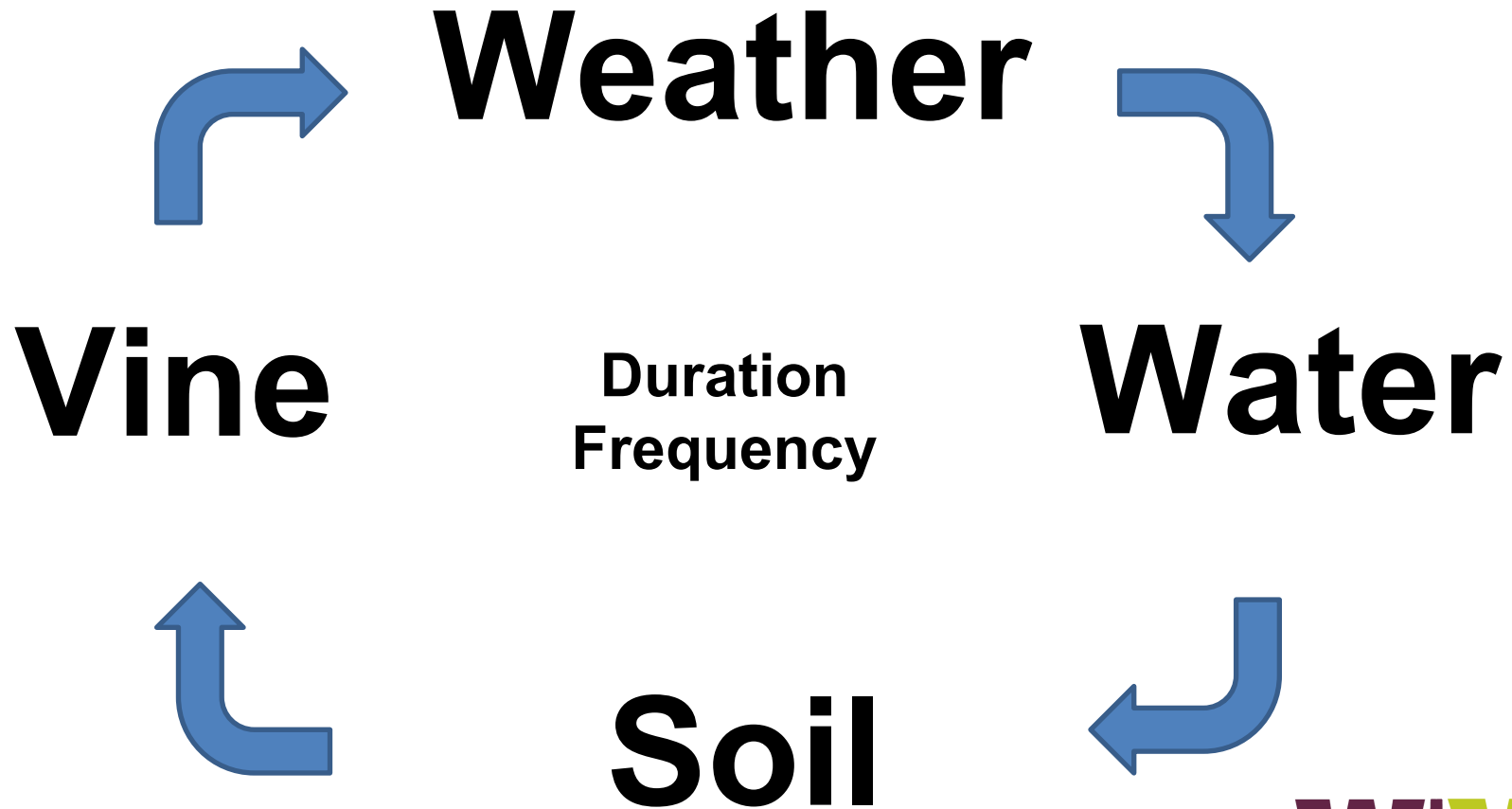
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Applied Irrigation Science

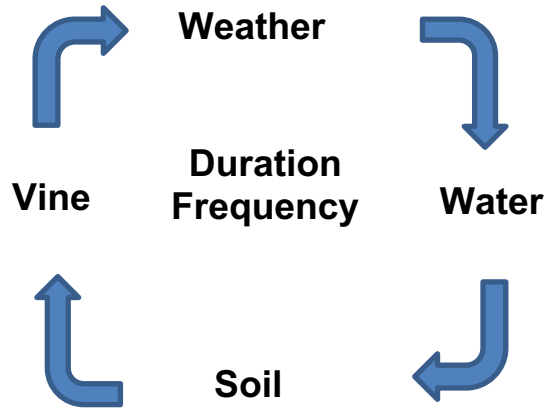
Gregory Gonzalez

Certified Agricultural Irrigation Specialist



Understand your Irrigation System





Define:

ET = Evapotranspiration

- Weekly ET value
- % ET

Soil Texture/Type

Soil Moisture Level

- Saturation
- Field Capacity
- Plant Available Water
- Permanent Wilting Point

Managed Allowed Depletion

RDI Regulated Deficit Irrigation

Infiltration Rate

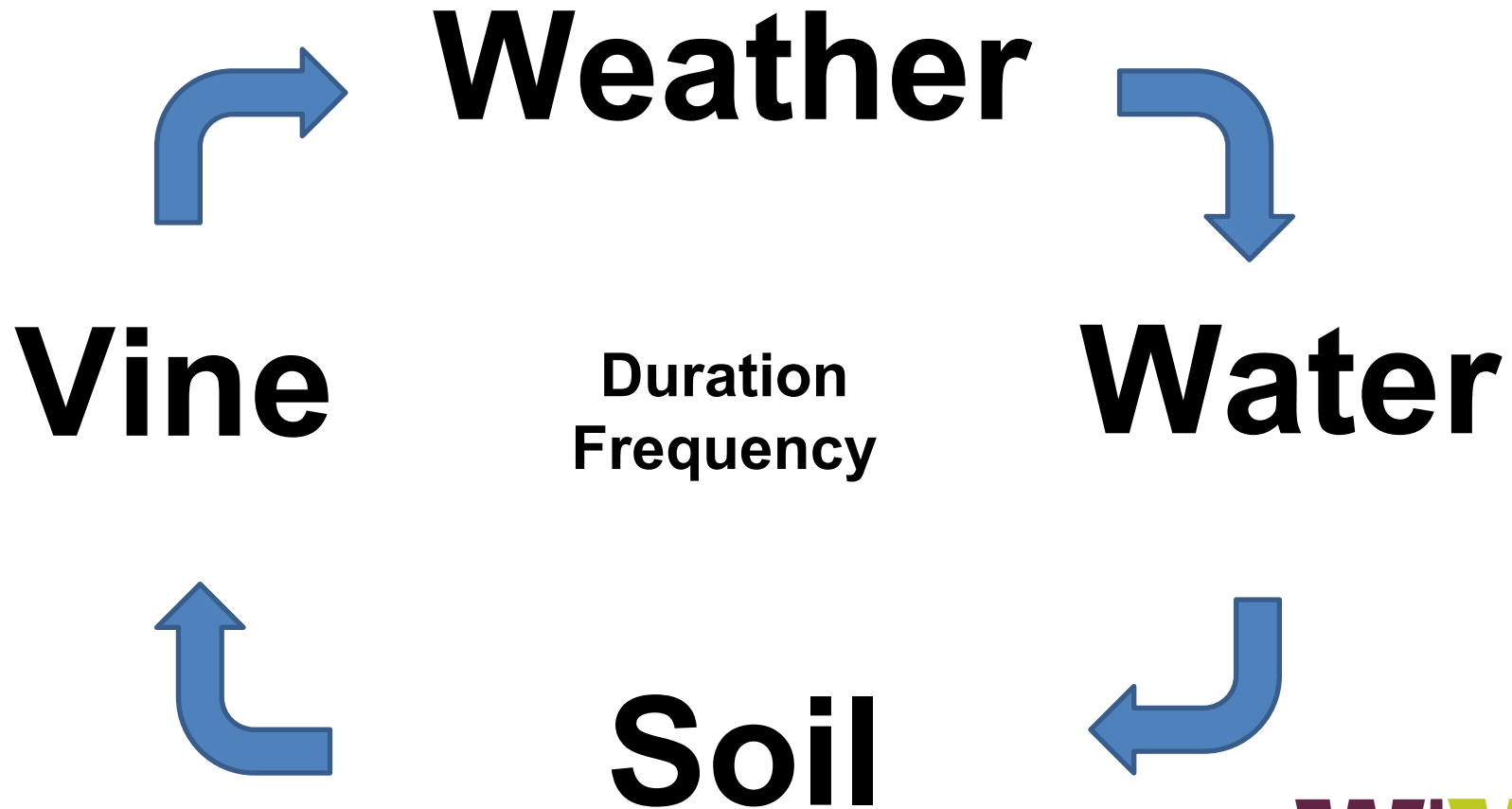
Acre-inch and Acre-foot

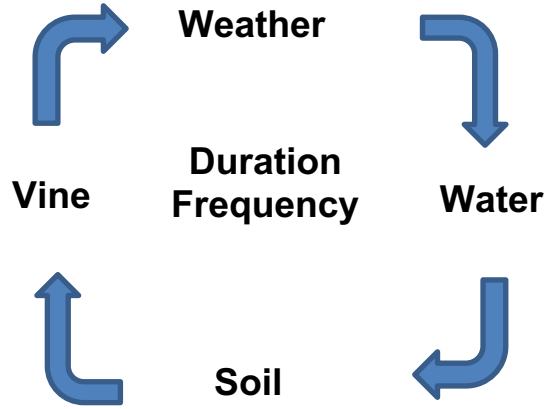
-1 acre-inch of water = 27,154 gal H₂O

-12-inches of water over 1 acre of land = 325,848

GPH / Emitters per Vine

Vines Per Acre (VPA)



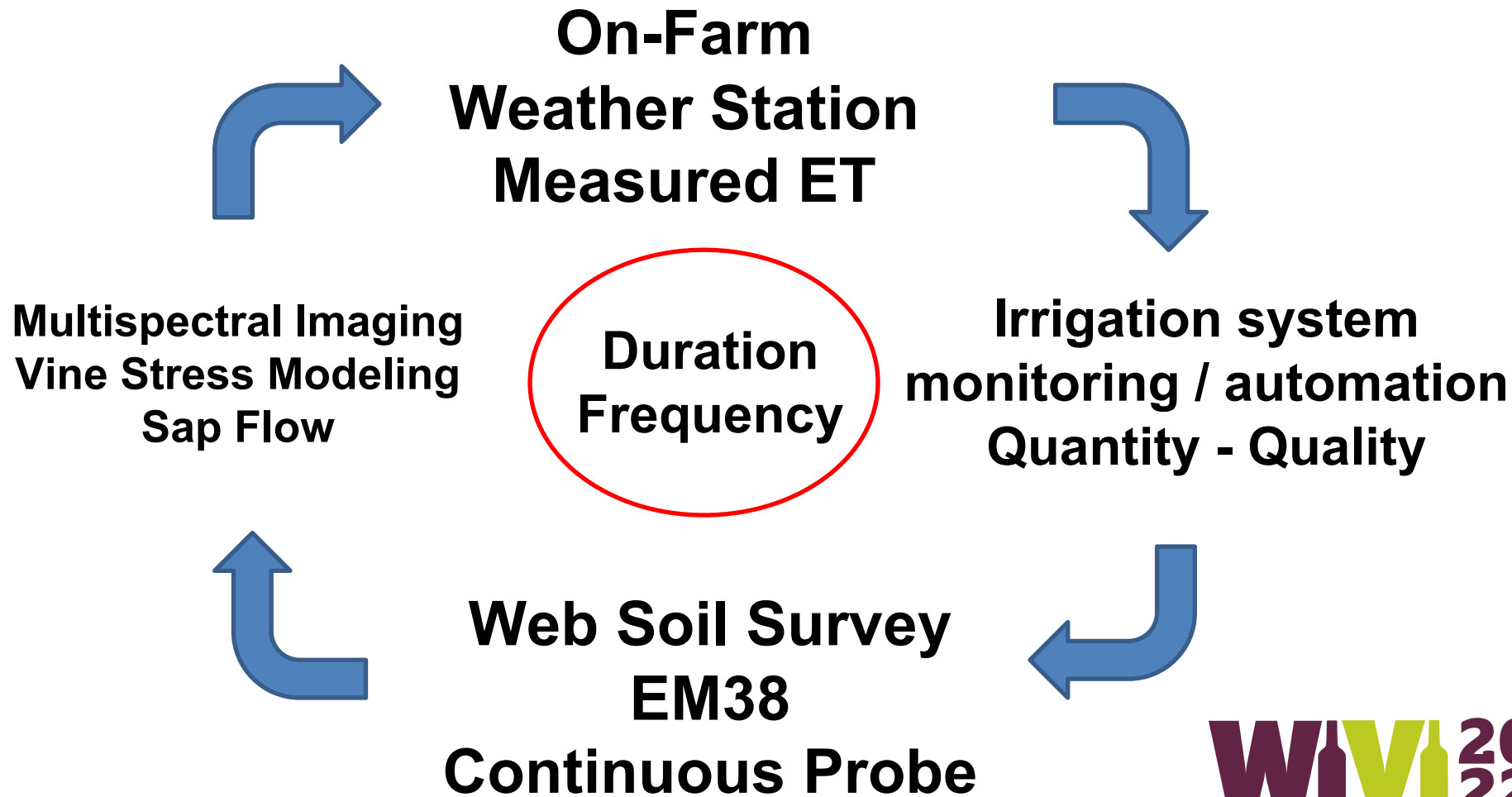


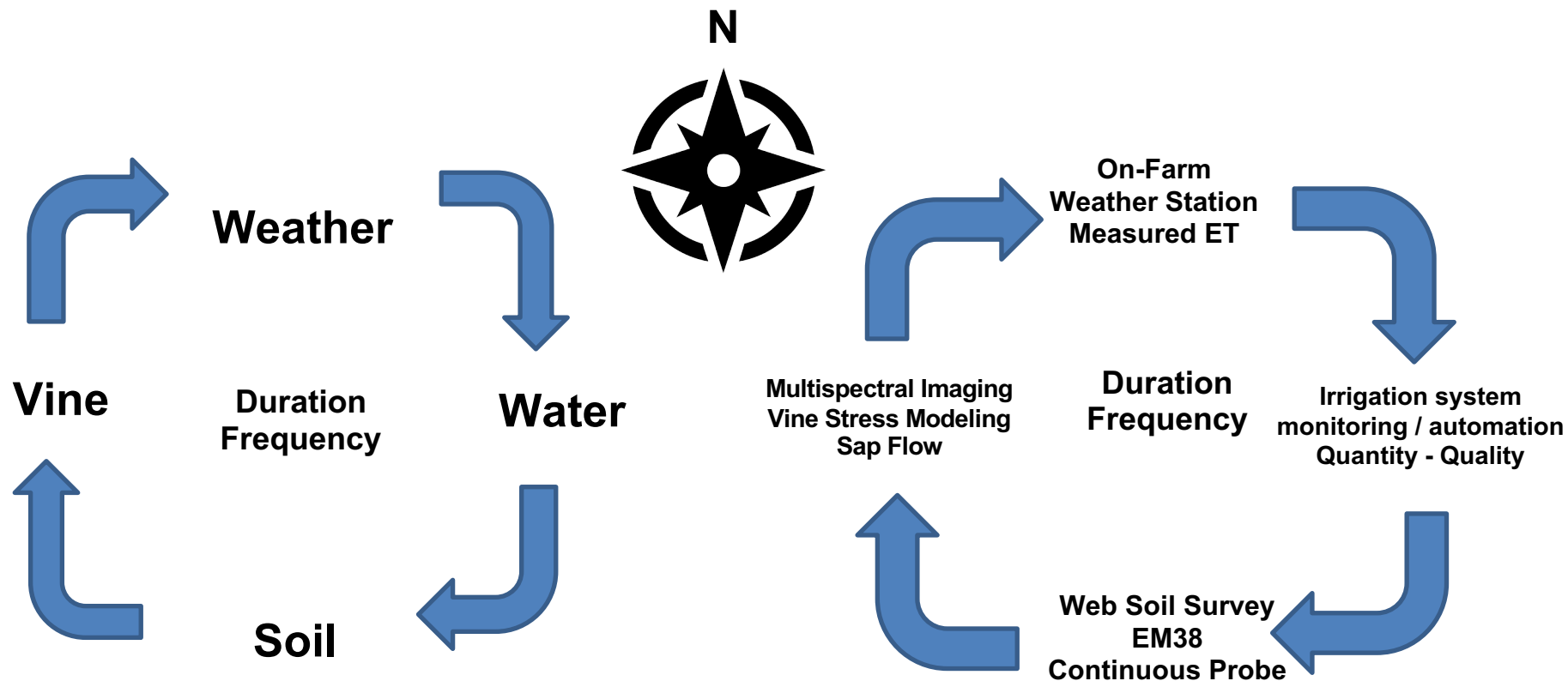
The first rule of any technology used in a business is that automation applied to an efficient operation will magnify the efficiency. The second is that automation applied to an inefficient operation will magnify the inefficiency.”

-Bill Gates

Irrigation Technology is relative to scientifically sound traditional methods.

- ETc – CIMIS, lysimeter
- Touch Feel Method of Soil Moisture
- Pressure Chamber – Vine Stress





Understand the Science

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