

VINWIZARD

Winery Value Creation w/o CAPEX

11.05.2024



THE PROBLEM

- THE WINE INDUSTRY IS IN **TURMOIL**
- A MYRIAD OF **HEADWINDS** EXIST... ENERGY, WATER, LABOR, & AGING INFRASTRUCTURE
- ECONOMIC MODELS ARE **BREAKING** AS COST PRESSURES INCREASE
- **70%** OF WINERIES DIDN'T TURN A PROFIT IN 2023



THE SOLUTION

- A **GLOBALLY PROVEN** WINEMAKING EFFICIENCY PLATFORM
- **MONITORING & CONTROLLING** EVERY ASPECT OF A WINERY
- MINIMIZING **COSTS** WHILE MAXIMIZING OVERAL WINERY **OUTCOMES**.
- **DISRUPTING** A DECADES-OLD INDUSTRIAL AUTOMATION MARKET

AT WHAT COST? **NO SET-UP**

- COMPLETELY **CAPEX FREE**
- MONTHLY FEE BASED UPON FUNCTIONALITY ELECTED, ESTIMATE **(\$30-50/TANK)**



THE VINWIZARD PLATFORM

- VINWIZARD IS A LEADER IN WINERY EFFICIENCY ENABLEMENT, PROVIDING UNRIVALED INSIGHT & CONTROL OVER THE FERMENTATION PROCESS.
- A GLOBALLY PROVEN TECHNOLOGY CAPABLE OF MONITORING & INTEGRATING WITH EVERY ASPECT OF A WINERY'S OPERATIONS.



Reduce daily operating costs while improving quality of wine produced

- No compromises on wine quality or major changes to manufacturing processes.
- Improved control over operations with lower labor hours.



Proven energy savings, labor efficiency improvements & extended asset life

- System achieved $\pm 40\%$ energy savings; over \$1MM/yr for Australian customer.
- Reduce overtime pay & seasonal labour by automating routine, but critical tasks.



Cost effective insurance against catastrophic product loss

- Automatically act to avert catastrophe and save entire vintages.
- Alarm off-plan events, stopping issues before they become problems.

TYPICAL WINERY APPLICATIONS

MAXIMIZE CONTROL & RELIABILITY

ENHANCED TANK TEMPERATURE & FERMENTATION CONTROL

- UTILIZE EXISTING INFRASTRUCTURE FOR IMMEDIATE SAVINGS
- GREATER CONTROL OPTIONS, INCLUDING PULSE COOLING & LOAD SCHEDULING
- MINIMAL IF ANY NEW HARDWARE REQUIRED!

AMBIENT TEMPERATURE CONTROL

- MANAGE & OPTIMIZE AMBIENT CONDITIONS, MINIMIZING EVAPORATIVE LOSS
- HEATING, COOLING, NIGHT-AIR COOLING, HUMIDITY MANAGEMENT

MECHANICAL ASSET MONITORING – REFRIGERATION, BOILER, & COMPRESSOR

- RECEIVE ALERTS TO ANY OFF-PLAN PERFORMANCE OR ASSETS GOING OFF-LINE

PROCESS OPTIMIZATION & STATUS ALERTS

- REDUCE ENERGY COSTS W/ PULSE COOLING & LOAD SCHEDULING
- CREATE & ASSIGN TEMPERATURE MANAGEMENT PROTOCOLS
- UNLIMITED TEXT & EMAIL ALERTS

DATA MANAGEMENT & INTEGRATION

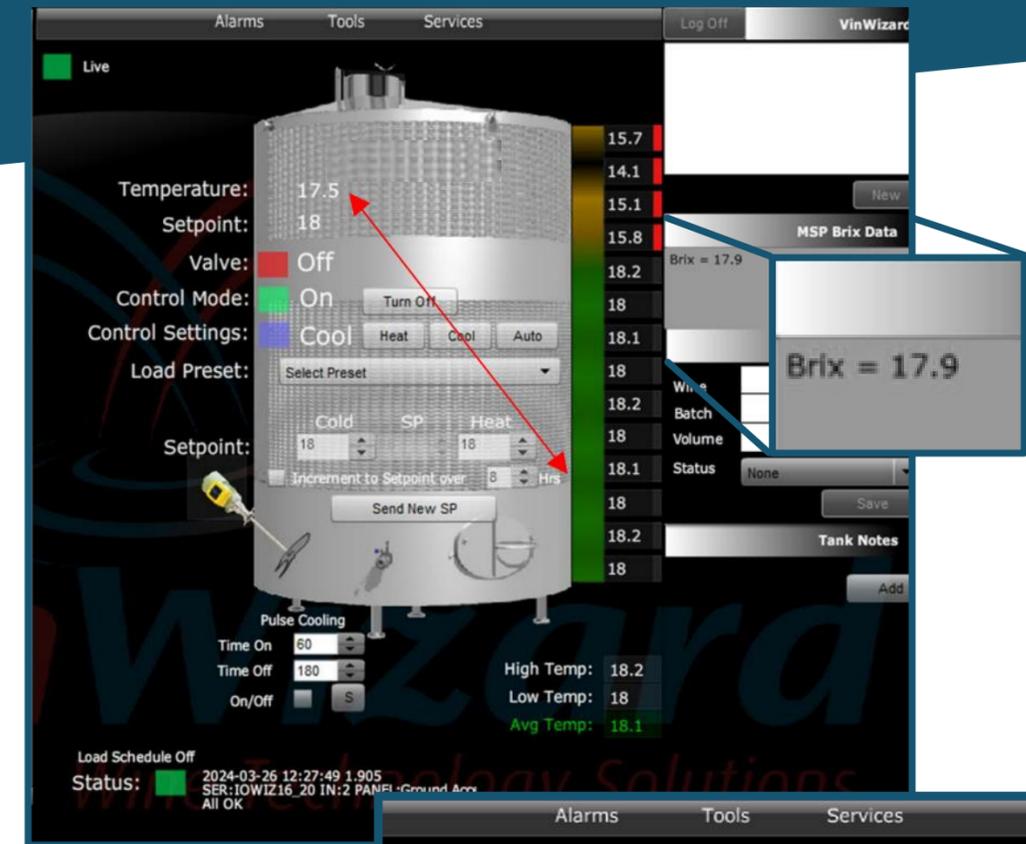
DATA INTEGRATION WITH EXCEL, INNOVINT, OR VINTRACE

- REDUCE DATA DOUBLE ENTRY; ENABLE CROSS-TALK BETWEEN PLATFORMS
- IMPROVE INFORMATION FLOW FROM WINERY TO SYSTEM OF RECORD (BRIX INPUT)
- ALL PARAMETER CHANGES & SYSTEM ACTIONS RECORDED WITH DATA CHARTING



VINWIZARD'S MULTI-SENSOR PROBE (MSP)

MULTI-SENSOR PROBE MSP

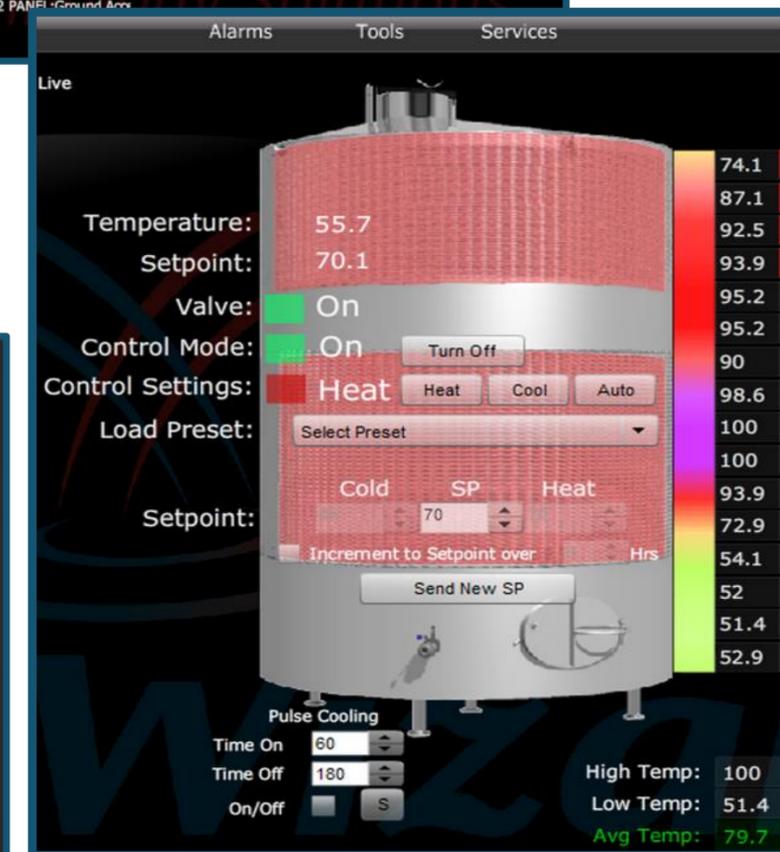
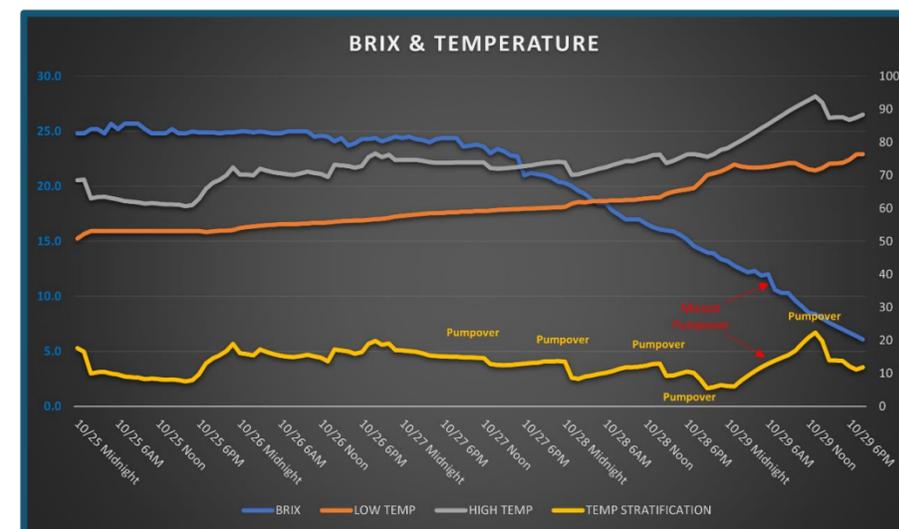


REAL-TIME BRIX & TEMP

Avoid out-of-control or stuck ferments by knowing what's actually happening inside the tank. Most thermwells are not ideally placed to inform winemakers of actual temperatures where it is most important.

50°F stratifications are real (far right graphic). VinWizard saved this fermentation by alerting winemakers to a 100°F reading 24" above the thermwell.

Winemakers can now manage pumpover schedules according to real-time information, optimizing nutrient additions and avoiding tough conversations with Custom Crush clients.



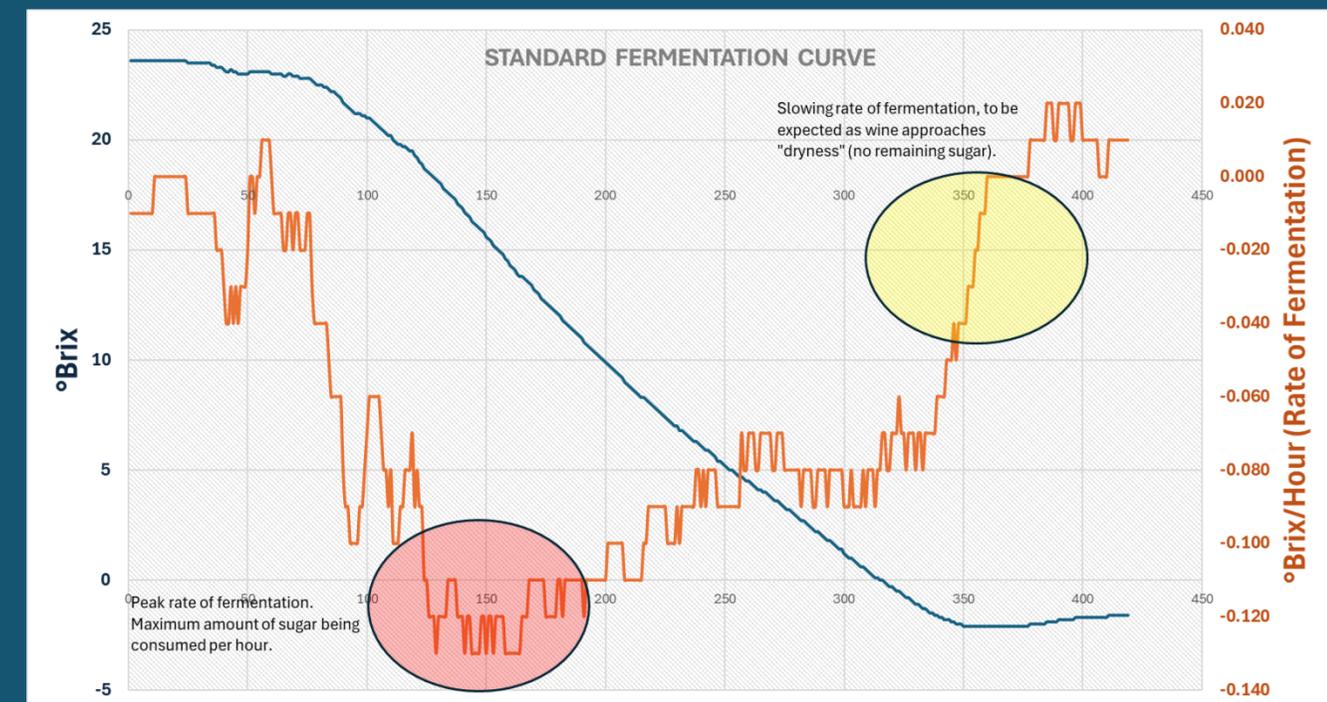
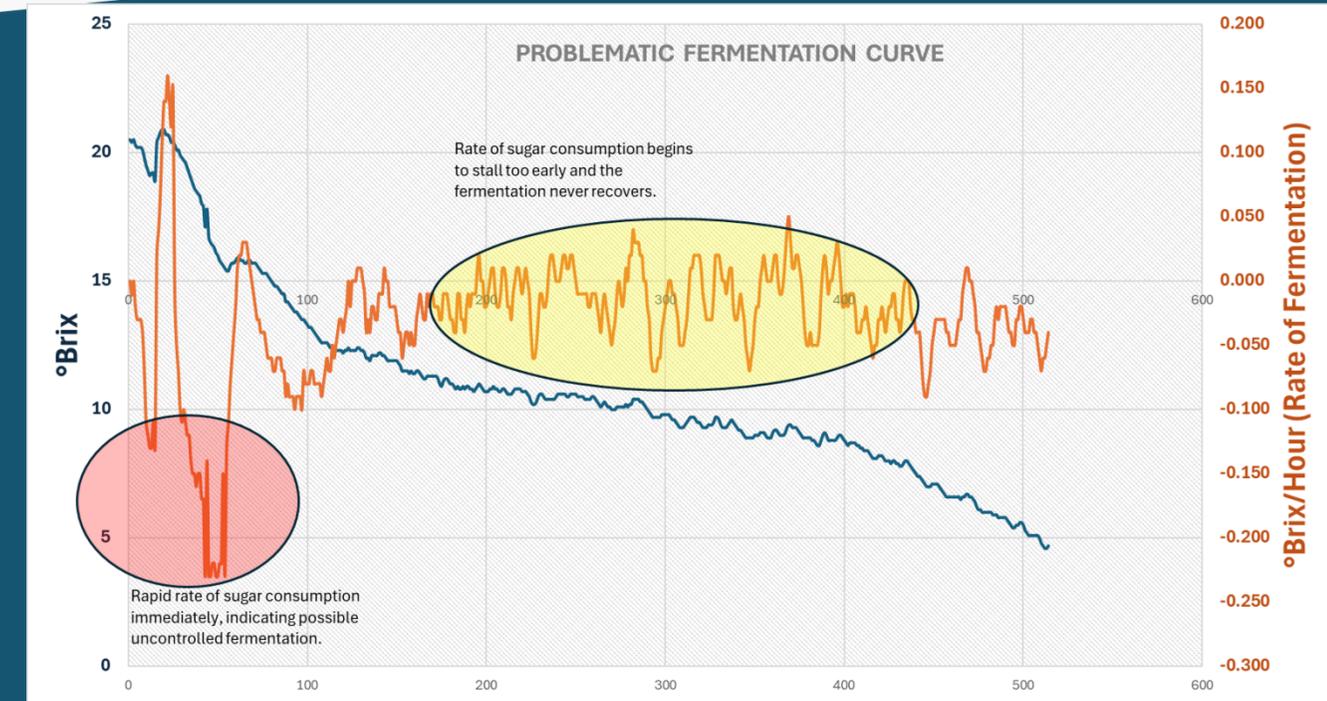
REAL-WORLD IMPACTS

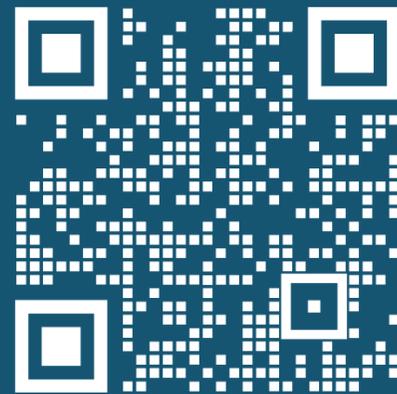
FERMENTATION TRENDDING

- Knowing Brix at any point is powerful, though trending the Brix information over time to generate a fermentation curve creates greater value.
- Computation of Brix consumption (rate of fermentation) provides helpful insight for nutrient additions & labor planning.

AVOID GETTING STUCK

- The upper chart show two instances of fresh juice additions to the original batch, possibly impacting overall health.
- Leveling of Brix readings along with chopping nature signals non-ideal fermentation characteristics.
- Triggering system alarms with unplanned rate of fermentation decreases or automatically increasing temperature may have avoided the sluggish ferm.





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