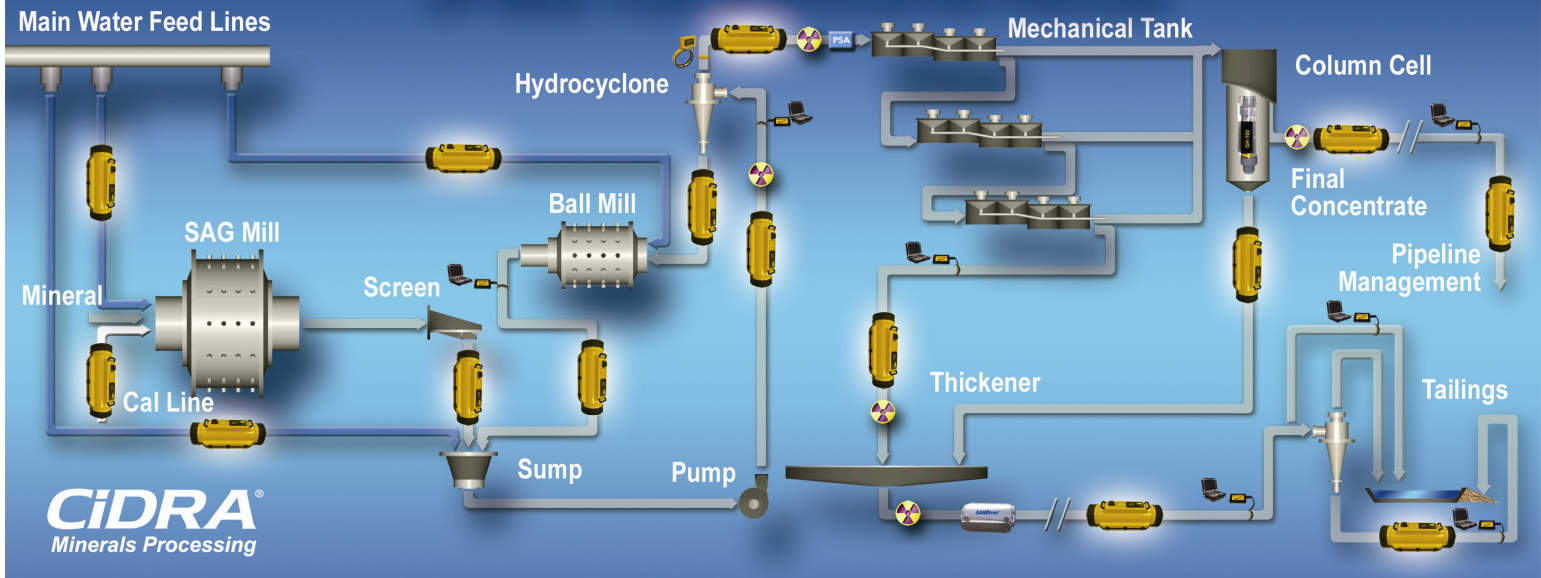


# OPTIMIZE YOUR BENEFICIATION PROCESS



## CiDRA Minerals Processing - flow measurement solutions

Breakthrough slurry flow meter enables a step change in flow measurement and entrained air measurement  
... ***Can your meter do that?***

- Accurate, stable, drift-free slurry flow measurements enabled by array-based technology
- Naturally immune to magnetic material (magnetite, ferrosilicon, pyrrhotite)
- Wraps around outside of pipe
  - ◆ No contact with fluid
  - ◆ Does not wear out
  - ◆ Maintenance-free
  - ◆ No leaks
  - ◆ No process down time
- ◆ Entrained air measurement (gas void fraction)
  - ◆ True volumetric flow determination
  - ◆ Correction of nuclear density gauges
  - ◆ Unprecedented mass balance capability

**CiDRA**<sup>®</sup>  
Minerals Processing

# Array-based Flow Meter Overview and Case Study

Sensor Band

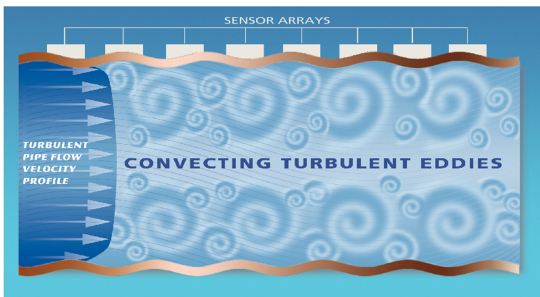


Protective Cover



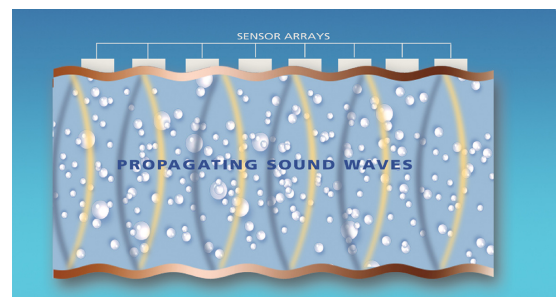
Volumetric Flow

Tracks and Measures Flow Rate of Naturally Occurring Turbulent Eddies through Wrap-Around Array of Passive Sensors (Accuracy +/- 1% of Reading)



Gas Void Fraction

Determines Volume of Entrained Air Bubbles via Speed of Sound Measurement (From 0,01% to 20% Entrained Air Levels)



Flotation Overflow Sump Box Pump Discharge



Measurement of Both Volumetric Flow and Entrained Air (Gas Void Fraction)

