Modern Water and Energy Saving Technologies Adoption in Central Asia
Valley is the global leader in center pivot and linear irrigation equipment and technology.

Approximately 25 million acres (10 million hectares) worldwide.

Valley equipment conserves water, saves time, reduces costs and increases yields.
Valmont Industries, Inc.

Valmont by the Numbers

- 4.3 Billion (USD) in net sales
- 6 Continents on which we operate
- 2 Segments in which we do business
- 31 Distinct Valmont brands
- 21 Countries with Valmont facilities
- 84 Manufacturing facilities worldwide
- 100+ Countries in which we do business
- 11,000+ Global employees
Since pioneering center pivot irrigation in 1954, Valmont has expanded into four market segments and more than 100 countries.
In June 1976, Scientific American magazine called center pivot irrigation systems "perhaps the most significant mechanical innovation in agriculture since the replacement of draft animals by the tractor."

Changing the face of the world
The Challenge

Only 2.5% of the worldwide water supply is fresh. Of that, only 30% is available to humans. Agriculture is the largest user of fresh water, with demand increasing to feed a global population predicted to be 9.6 billion by 2050.

The Solution: Valley Precision Irrigation

Durable options for a wide range of crops, in a variety of field sizes and shapes, on nearly any terrain

- Center Pivots/Linears
- Corners, Benders & DropSpan™
- Industry-Best Valley Gearbox
- X-Tec High-Speed Motor
The Challenge

There’s never enough time in the day to get everything done. Fields and equipment may be miles apart, and growers may use different brands to irrigate.

The Solution: Valley Remote Management Technology

Smart farm management solutions let growers take control of their irrigation – anytime, anywhere – to make their lives easier and use their time more efficiently.

• Valley 365
  • Monitor & Control with industry-leading AgSense tech
  • Forecast & Plan with Valley Scheduling
  • Optimize & Apply with Valley VRI

• BaseStation3
  • Irrigation Exchange
Remote Control Technologies on Farm

Valley® and AgSense® Farm
On Farm Example
Irrigation Scheduling and Forecasting
"3 A's" of DATA SCIENCE

**Acquisition**
Crops are constantly monitored with an array of sensors, from satellite imagery to drones and soil probes. Any existing data source is integrated into the data layering to optimize plant health.

**Analysis**
The data collected is analyzed in the Prospera Cloud by powerful Artificial Intelligence (AI) engines, Computer Vision (CV) and Machine Learning (ML) algorithms.

**Action**
Post analysis, recommendations are sent to the field prompting the grower to take action. The instructions can also be sent directly to the pivot for robotic operation with grower notification to commence operation for true autonomous crop management as technology progresses.
Irrigated Land 1989 - 2023

- Uzbekistan
- Kazakhstan
- Kyrgyzstan
- Tajikistan
- Turkmenistan

Comparison of irrigated land in the specified countries for the years 1989 and 2022.