Forecast further.
Weather impacts countless business decisions. The further ahead you can forecast, the greater advantage you gain. At Salient, we help enterprise clients increase resilience to climate-driven weather volatility by redefining the accuracy of weather forecasts beyond two weeks.

Industry-specific analytics on business-critical timescales.
We deliver accurate forecasts on timescales that used to be not much better than a coin flip. Salient’s climate insights help enterprise customers optimize performance, mitigate risk, improve resiliency, and plan initiatives—weeks, months, or even up to a year in advance. Imagine what you could accomplish if you could see further into the future.

How we measure up

✓ 2X accuracy improvement over competitive forecasts
✓ 4 billion machine learning predictors
✓ 5 million API data points generated weekly

“...We think Salient is the state of the art in S2S weather forecasting. Their data has many applications for us, one of them being in ag-tech, as we endeavor to tackle the pressing need to feed the next billion.”
— Dr. John Manobianco, Senior Weather Modeler, BASF
Gaining new insight from the global water cycle.
Conventional forecasts are based on numerical models of atmospheric conditions, which provide little skill for S2S weather predictions. Our decades of research reveal that ocean and land-surface conditions—two global features with greater inertia and heat capacity—have the largest influence on seasonal weather patterns.

Salient is a global-scale machine learning platform. We use deep neural networks to analyze a wide range of climate data. Because our models are statistical in nature, they don’t get bogged down by the details of atmospheric physics—and they have the scale and complexity to find predictability in all aspects of the climate system.

Billions of weather and climate predictors
We employ global datasets of ocean, land, and atmospheric data to gain a unique and more robust picture of the factors that actually drive seasonal weather patterns.

Extracting predictability
Our model is continuously updated with recent climate observations, and integrates outputs of numerical models like GFS and ECMWF.

Always learning and improving
We are constantly testing and adjusting our models, and integrating the latest breakthroughs in machine learning to improve our forecasts and skill.

Quantitative evaluation of risk
Our forecasts include probabilistic distributions of outcomes to provide a comprehensive view of risks and the likelihood of extreme events.

Explaining physical connections
Salient is breaking ground in describing clear and non-obvious physical “teleconnections” in our machine learning model outputs.

Industry-specific analytics
We extract industry-specific forecasts to deliver meaningful insights to enterprise customers, covering a variety of formats and variables.

Salient offers a 30-year library of backtesting data that allows customers to validate our results and understand the true potential of our models. Contact us to learn more.
A product-centric approach to actionable S2S insights
Salient delivers forecasts for precipitation, temperature, and other weather variables at up to 1/4° (25km) spatial resolution. Our models provide global coverage and can be customized to include optimized predictors and accuracy for smaller regions.

Forecast timescales
Our forecasts are issued on a weekly basis. Long-range forecasts are issued every month.

✓ Sub-seasonal forecasts 1-5 weeks
✓ Seasonal forecasts 1-30 days, 31-60 days, and 61-90 days
✓ Long-range forecasts 1-3 months, 4-6 months, 7-9 months, and 10-12 months

Interface options
We forecast a wide range of weather variables with a variety of ways to interact with them.

✓ Decision tools
Salient shortens your time to insight by coupling our forecasts and industry analytics to decision tools including threshold alerts, recommendations, and more.

✓ Map interface
Salient’s web-based interface includes forecast maps, probability plots, historical performance graphs, and comparison forecasts at multiple spatial and temporal scales.

✓ APIs
We provide raw forecast data in gridded NetCDF format through APIs that can be integrated into digital products, dashboards and virtually any forecasting tool.

Salient Acceleration Services
Our scientific and business experts love collaborating with customers to accelerate new analytics, and uncover new ways to leverage the world’s most accurate forecasts. Together, we’ll help your organization drive profitability—and be better prepared for the future.
Salient combines novel ocean and land-surface data with machine learning and climate expertise to deliver the world’s most accurate subseasonal-to-seasonal weather forecasts—2 to 52 weeks in advance. Bringing together world-leading experts in physical oceanography, climatology and the global water cycle, machine learning, and business growth, Salient helps enterprise clients improve resiliency, increase preparedness, and make better decisions in the face of a rapidly changing climate.