TAVANT

ACCELERATING DATA MODERNIZATION FOR A GLOBAL TRAVEL PLATFORM

How Tavant Delivered Scalable, High-Performance Data Solutions Across Multiple Business Areas

TAVANT

### THE CLIENT AND THE CHALLENGE

The client, a major player in the travel industry, runs a popular booking platform used by millions. To keep up with growing demand for personalized experiences, smooth transactions, and efficiency, they needed to upgrade their data system for faster decisions and business growth. Their old system, with 6,000+ servers in Europe, was overloaded, making scaling difficult. They also had to ensure secure data sharing and privacy. Using AI, they aimed to boost user experience, improve recommendations, and detect fraud in real time.

THE SOLUTION

Tavant strategically integrated its expertise in data modernization, AI, and cloud transformation to enhance the client's business operations. By addressing critical infrastructure challenges, streamlining data workflows, and implementing AI-driven solutions, Tavant enabled real-time decision-making, improved scalability, and enhanced customer experiences. The solutions focused on optimizing data storage, automating workflow management, ensuring compliance with data regulations, and leveraging AI for better user engagement and operational efficiency.

THE IMPACT

Tavant's data modernization efforts helped the client save costs, improve customer experience, and run operations more efficiently. By moving to scalable and cost-effective storage systems, the client reduced infrastructure expenses while gaining the flexibility to grow. Optimized workflows cut processing times from 24 hours to just 4 hours, allowing for faster decision-making and smoother service. AI-driven improvements made it easier for users to find the right accommodations quickly, leading to higher customer satisfaction and more bookings. Enhanced data privacy measures ensured compliance with regulations, building trust and security across the platform. Additionally, automation reduced manual work, improved system reliability, and maintained 99.95% uptime, ensuring a seamless experience for customers and internal teams. These advancements have set the client up for long-term success in the competitive travel industry.

TAVANT
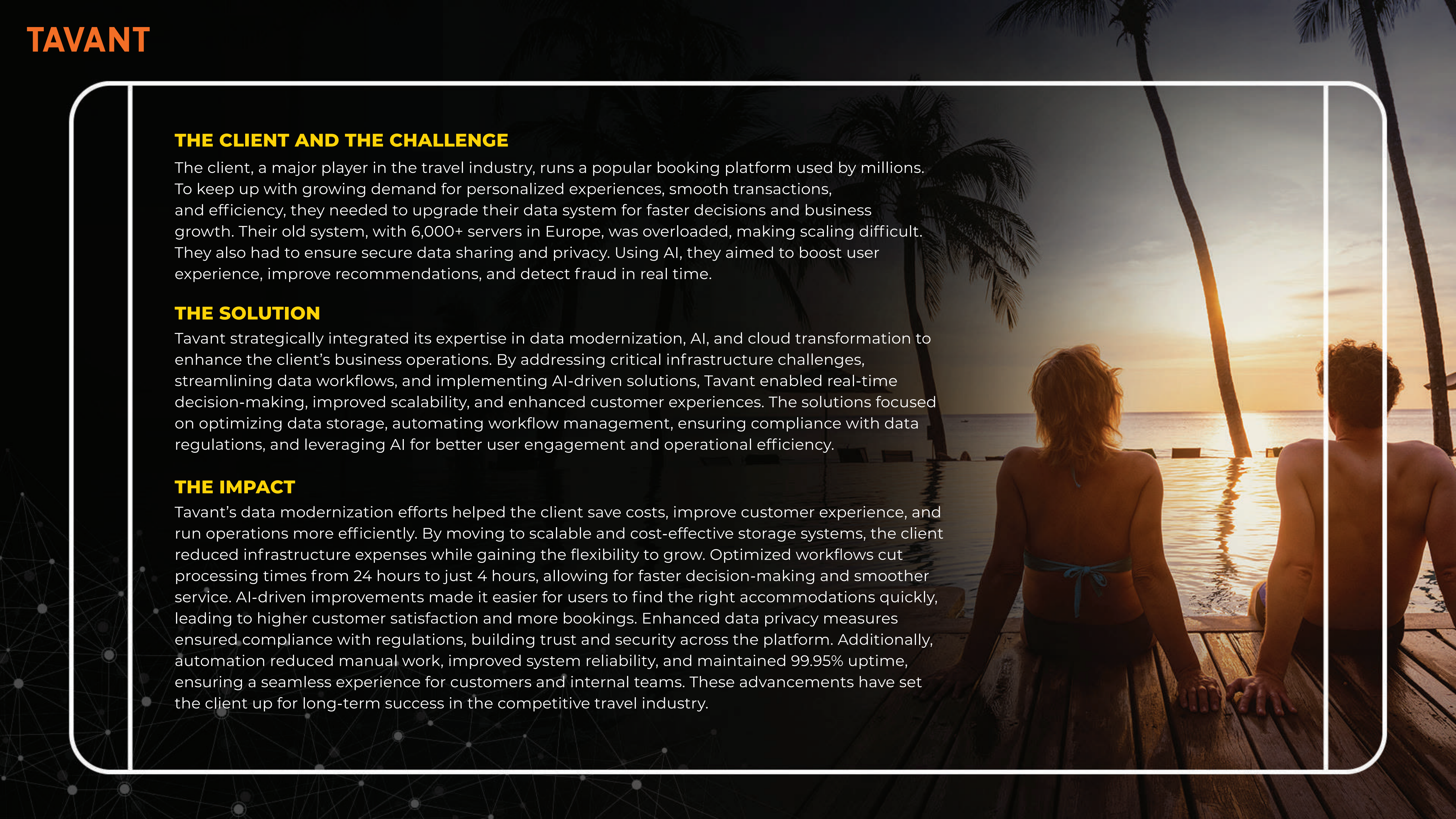
CUSTOMER DATA PLATFORM
Delivered live API services for seamless access to aggregated user data.
Migrated storage systems from Keyspaces to DynamoDB, reducing operational costs.

ACCOMMODATION WORKFLOW MANAGEMENT
Migrated over 100 workflows to a modern data pipeline for scalability. Introduced
real-time monitoring and Kafka topic support for better data flow management.

MANAGED DATA PLATFORM
Automated maintenance and optimization for 300PB of storage and 70K vCores.
Reduced compute usage and storage costs by over 30%, ensuring long-term scalability.

PII REDACTION AND BENCHMARKING
Developed synthetic data pipelines to enhance privacy compliance. Transitioned to
GPU-based EC2 instances, reducing PII detection response times.

GenAI GATEWAY
Implemented Retrieval-Augmented Generation (RAG) services to enhance
query resolution. Built batch processing capabilities for large-scale inferencing,
reducing token costs.