



Bunge modernises global commodity trading with OutSystems ODC



From partner switch to a fresh start

Bunge is the world's leading agricultural commodity trader, active in the buying, selling, and transport of commodities including wheat, corn, and cotton. To replace its ageing legacy system, Whiteboard, a Windows Forms application dating back to 1996, Bunge set out to build AgroPulse: a centralised portal for traders and researchers. After an initial development partner did not deliver the expected results, the project was handed to Product League through an existing relationship with a project manager at Bunge. Product League's OutSystems development team started largely from scratch, retaining only one small piece of the previous code.

SOLUTION

Trading portal

TECHNOLOGY

OutSystems

INDUSTRY

Agricultural

Building on OutSystems ODC

Bunge was among the first organisations to build on OutSystems ODC, the latest-generation cloud-native OutSystems platform, for agricultural commodity trading operations. AgroPulse serves two core user groups. Traders use the platform to monitor commodity balances and make buy and sell decisions. Researchers input, upload, and manage the underlying supply and demand data that traders rely on.

At the heart of the application is a dynamic balance view showing commodity stock levels, referred to as carry-in and carry-out, across user-selected commodities, origins, and time periods.

One

of the first projects built on OutSystems ODC

Complex

carry-in/carry-out calculation logic fully automated

Legacy system

whiteboard successfully phased out during the project

Agile adoptie

adoption supported and guided by Product League throughout

The calculation logic behind these figures was one of the most complex parts of the build, with multiple interdependent data categories feeding into each period's figures. To handle the dynamic, column-heavy nature of the data grid, the team implemented AG Grid, a highly customisable front-end component functioning much like a live spreadsheet within the application.



Replacing Excel and syncing with legacy

Before AgroPulse, researchers managed supply and demand data entirely in Excel. The application was built to support direct Excel uploads, parsed and converted into structured data within the platform. A significant integration challenge was maintaining synchronisation with Whiteboard, which remained in use during the transition. Whiteboard was gradually phased out over the course of the project.

Additional integrations included Microsoft Entra ID for authentication and Snowflake as a data middleware layer feeding a downstream BI application.

A collaborative, high-trust partnership

The collaboration with Bunge stood out for its quality. Led by a product owner from Bunge's side, the team worked in a calm and structured environment that prioritised doing things right. Bunge embraced Agile ways of working and was open to guidance from Product League throughout. Sprint demos were consistently well received and the project ran for approximately one year and eight months.

Case Overview

Company name

Bunge

Industry

Agricultural

Challenges

- Legacy system (Whiteboard, built in 1996) was slow to change and difficult to maintain
- Previous development partner did not deliver the expected quality after three months, resulting in a partner switch
- Data was managed manually in Excel, making it error-prone and hard to scale
- No modern platform to support traders and researchers in their daily work

Solution

- Custom portal (AgroPulse) built on OutSystems ODC, integrating with Snowflake, Microsoft Entra ID, and the legacy Whiteboard system

Benefits

- Traders and researchers work from one centralised, reliable platform
- Excel uploads replaced by structured in-app data management
- Complex commodity balance calculations automated and consistently accurate
- Built on OutSystems ODC, positioning Bunge for future growth and further legacy migration



What comes next

With the Bunge–Viterra merger complete, a significant number of legacy applications remain in scope for migration to OutSystems ODC. Bunge has also explored building an internal Centre of Excellence to grow in-house OutSystems capability, an ambition Product League is well positioned to support.

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“Bunge was new to Agile, and we were able to guide them through it. That shared learning process made the collaboration one of the smoothest I have experienced.”



Rafael Valente

OutSystems Developer

About Product League

We help you move from idea to a working solution with an approach that makes sense and keeps delivering over time. We start with **Discover** to define what is really needed, translate this into intuitive solutions during **Design**, and build it into reliable software in **Develop**. We use low-code platforms such as OutSystems and Power Apps to move fast, without compromising on quality or scalability.

You work with multidisciplinary teams where roles like UX, Business Analyst, Product Owner, and developers collaborate seamlessly. We support you from strategy through to delivery and ensure solutions truly work in practice. After go-live, we stay involved through Managed Services for maintenance, optimization, and further development, or as a separate service whenever you need support.