

Presented By:  
Jonathan Davids

# Landfolio's Integrations Toolkit

---

Landfolio User Conference - 10 February 2023

## Outline

An **integrated** list  
of topics

01

### Integrations

What are they all about?

02

### Landfolio & Integrations

A long history, not a recent event

03

### Landfolio's Integrations Toolkit

A set of tools, technologies and patterns

04

### Integrations: Adding Value

The many possibilities

05

### Toolkit: Closer Look

Landfolio SDK, Web API & Webhooks Service

06

### Examples

Integrations out in the wild



# 01

## Integrations

---

What are they all about?





## Multiple systems (a system of systems):

- Flight control
- Landing gear
- Hydraulic
- Electrical
- Propulsion
- Fuel
- Avionics
- Software
- Cabin control
- Ice protection



# Organizations as Systems (Departments)

---



## Marketing

Promote our products and services to meet the needs of the market



## Sales

Sell our products and services to the market



## Research & Development

Create new products and services for our customers



## Production/Operations

Carry out the core business of producing goods and providing services



## Accounting/Finance

Account for products sold, services rendered and costs incurred



## Human Resources

Attract and retain the right people for the job



# Integrated Computing Systems

---



## Enterprise Resource Planning (ERP)

A system that manages multiple core business activities such as accounting, procurement, operations, supply chain, etc.



## Document Management System (DMS)

M-Files, Google Drive, SharePoint, etc.



## Customer Relationship Management (CRM)

Salesforce, Pipedrive, HubSpot, etc.



## Database Management Systems (DBMS)

Microsoft SQL Server, Oracle, PostgreSQL, etc.



## Accounting/Finance

Oracle, SAP, QuickBooks, Sage, Xero, etc.



## Geographic Information Systems (GIS)

ArcGIS, MapInfo, Google Maps, etc.



# 02

## Landfolio & Integrations

---

A long history, not a recent event



# Well-Established Landfolio Integrations

---



## Relational Database Management System (RDBMS)

Microsoft SQL Server - database views  
SQL Server Integration Services (SSIS) - data manipulation



## Document Management System (DMS)

SharePoint, M-Files - document repositories



## Embedded Geographic Information System (GIS)

Esri ArcGIS - publish map services, reference OGC-compliant map services, reference external spatial datasets (mapping & spatial analysis)



## User Authentication

Microsoft Active Directory  
3rd Party Identity Providers (SAML)



## Import and Export Functionality

Excel, CSV, file geodatabase, shapefile, etc.



## Payment Gateways

Direct Pay Online Group: PayGate, JazzCash.





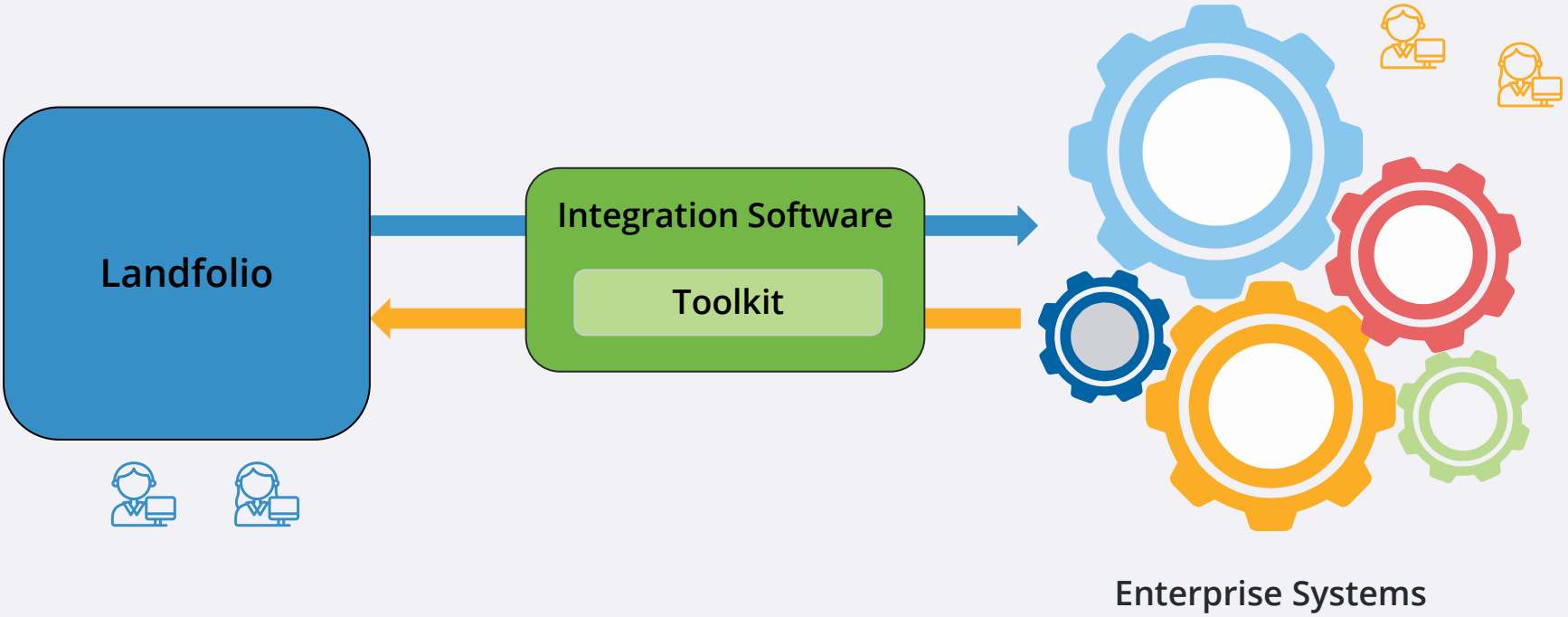
# 03

## Landfolio's Integrations Toolkit

---

A set of tools, technologies and patterns





# 04

## Integrations: Adding Value

---

The many possibilities



# Integrations: Adding Value

---



## Keep systems in sync

Obligations from landfolio automatically reflected to other systems. Work completed in other systems automatically marked as done in landfolio. Eliminates duplication of effort.



## Keep users focused and happy

Keep using systems users prefer. Keep users focused on their role and function.



## Automate work

Automatic identity verification or tax compliance status checks.



## Client-specific requirements

More custom workflows than out-of-the-box functionality.



## Fit-for-purpose and best-of-breed

Choose the best software for the job at hand. Integrate it with Landfolio. Allow multiple points of entry: find a document in the DMS based on a land attribute in Landfolio.



## Rich and sustainable set of tools

Beyond generic integration capabilities of 3rd party software. Fully supported API with rich functionality.



# 05

## Integrations Toolkit: Closer Look

---

Landfolio SDK, Web API & Webhooks Service



# Landfolio Integrations Toolkit

## A Closer Look



### Webhooks

Notifies the integration that a change has happened in landfolio.



### Web API

Allows read and write access to landfolio using secure web calls.



### Software Development Kit (SDK)

Allows developers to write code that reads from and writes to landfolio via the Web API.



### Scheduled Exporters and Importers

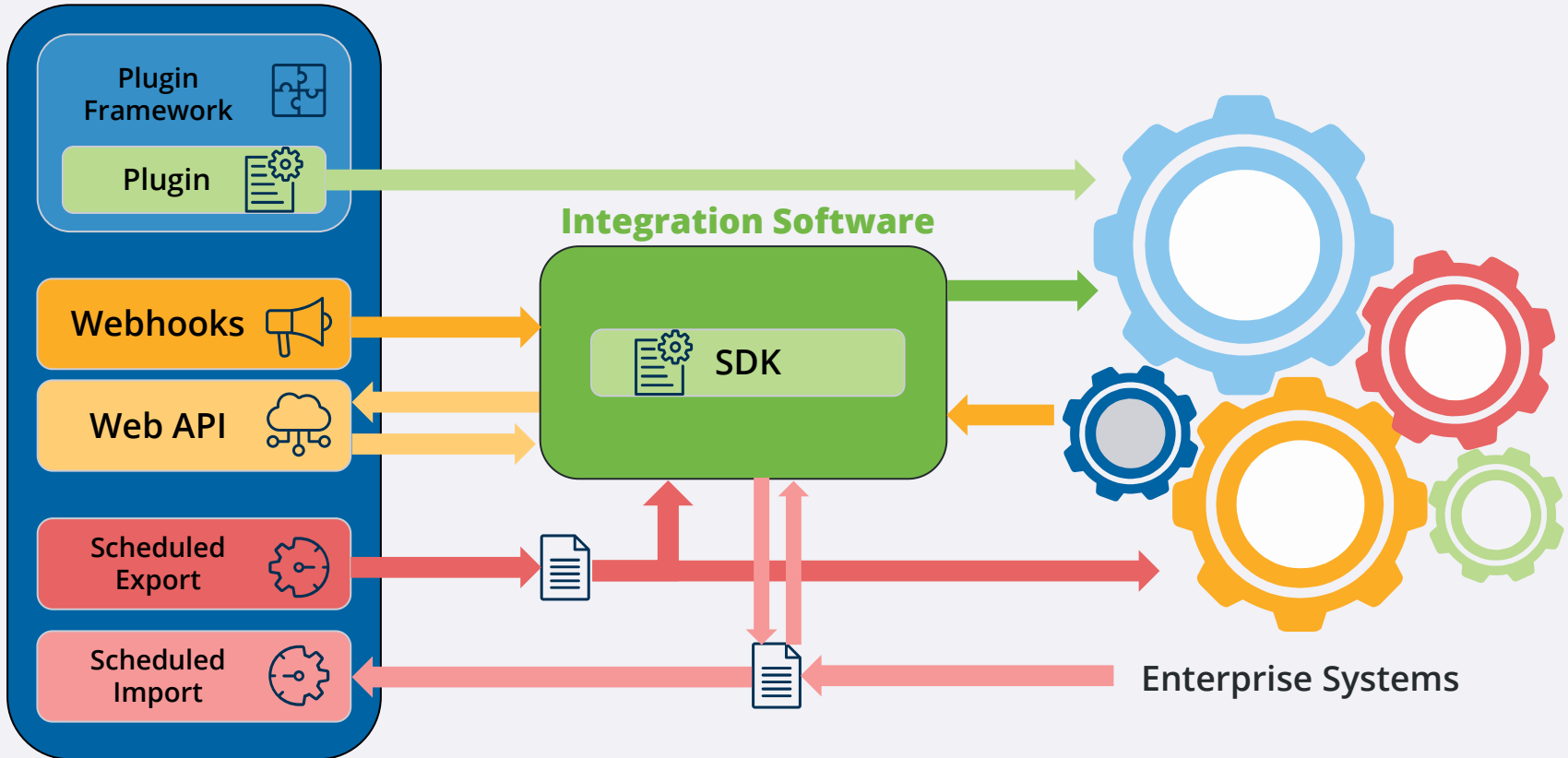
On a regular basis, export data to the file system or read a file and import its contents.



### Plugin Framework

Allows landfolio to connect to third-party systems in the UI.





**Landfolio**

**Enterprise Systems**



# 06

## Examples

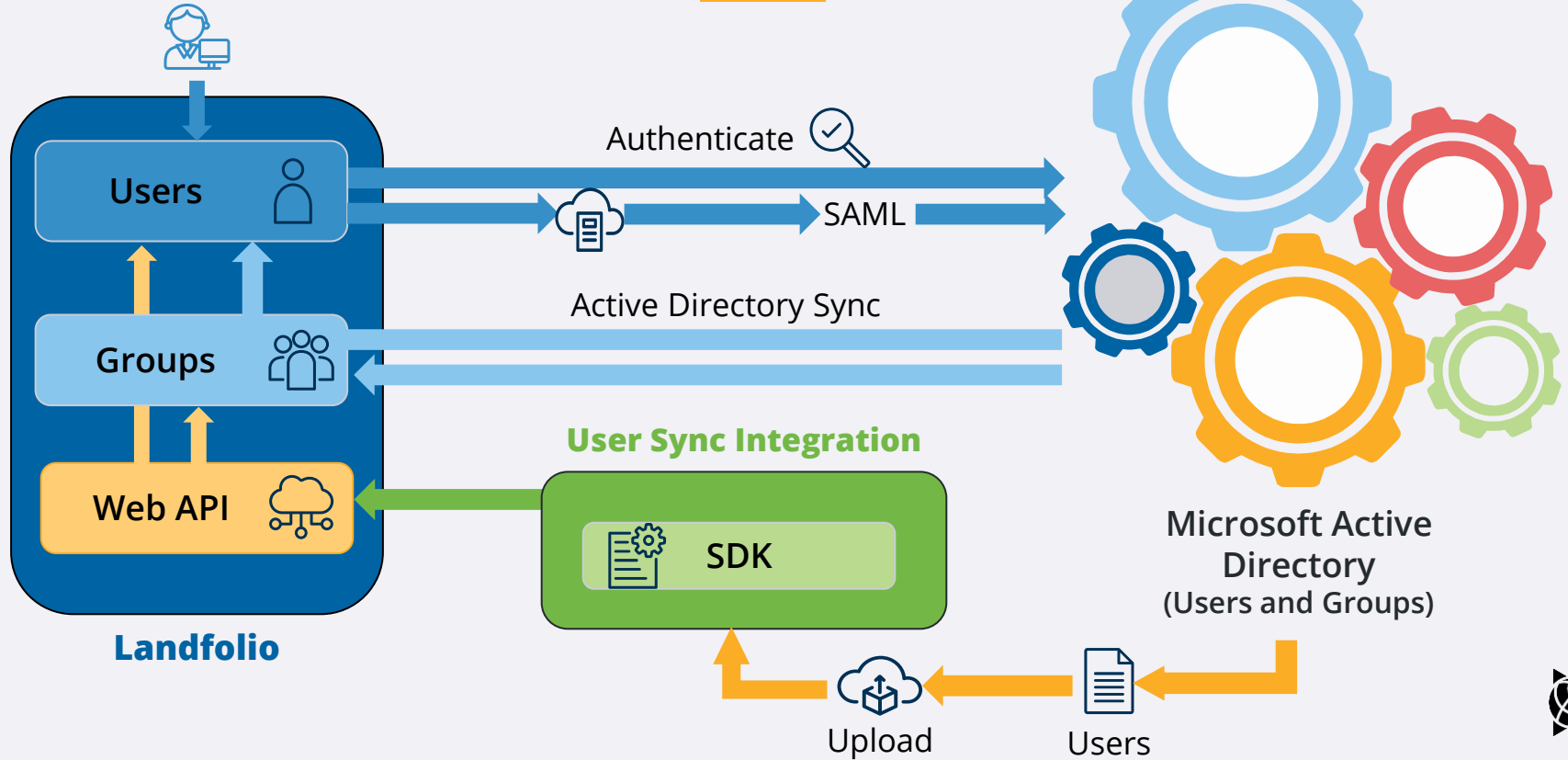
---

Integrations out in the wild

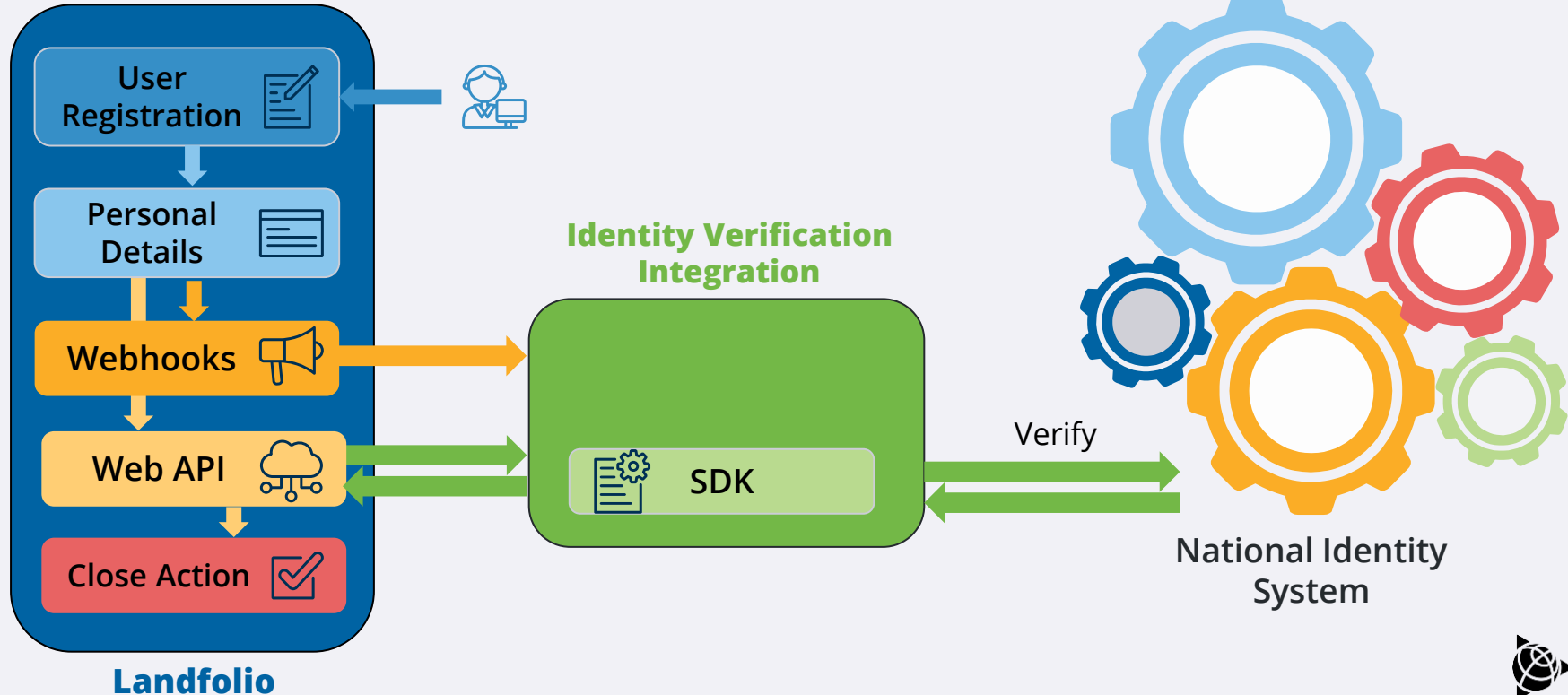




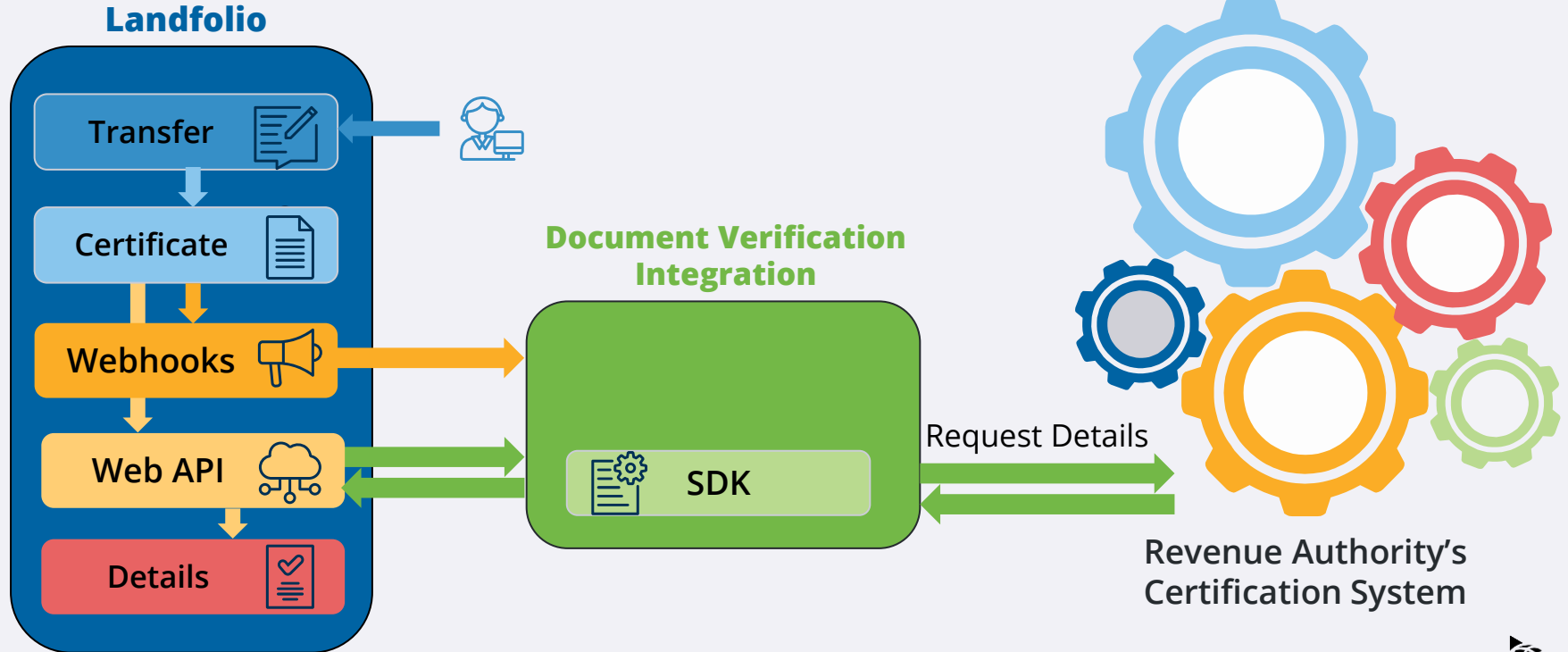
# User Management



# Identity Verification

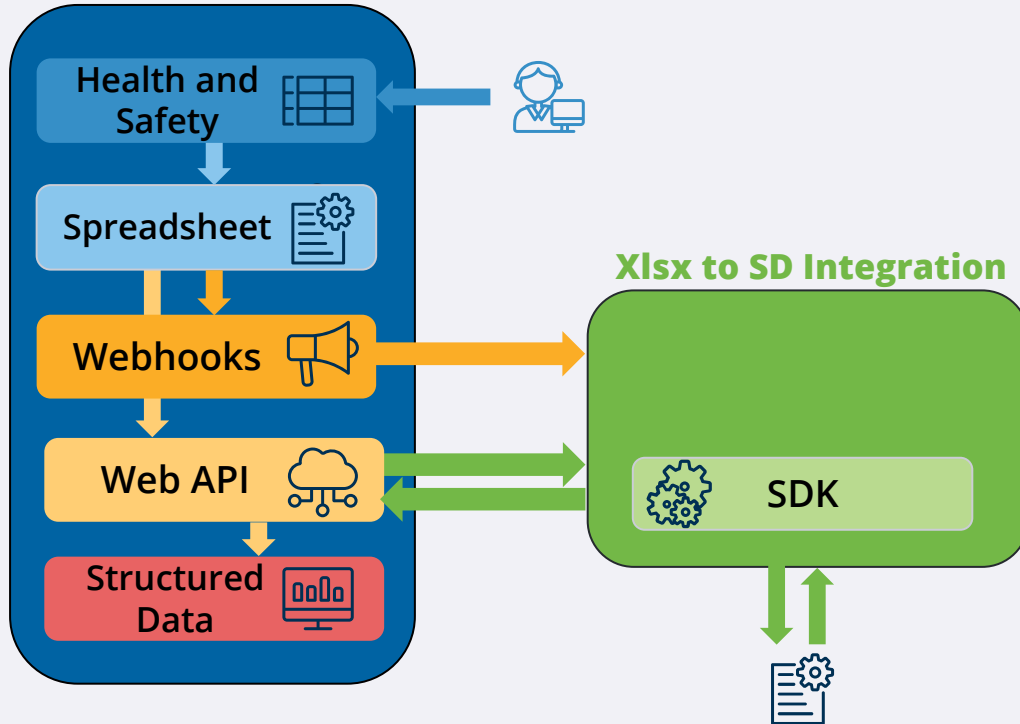


# Document Verification

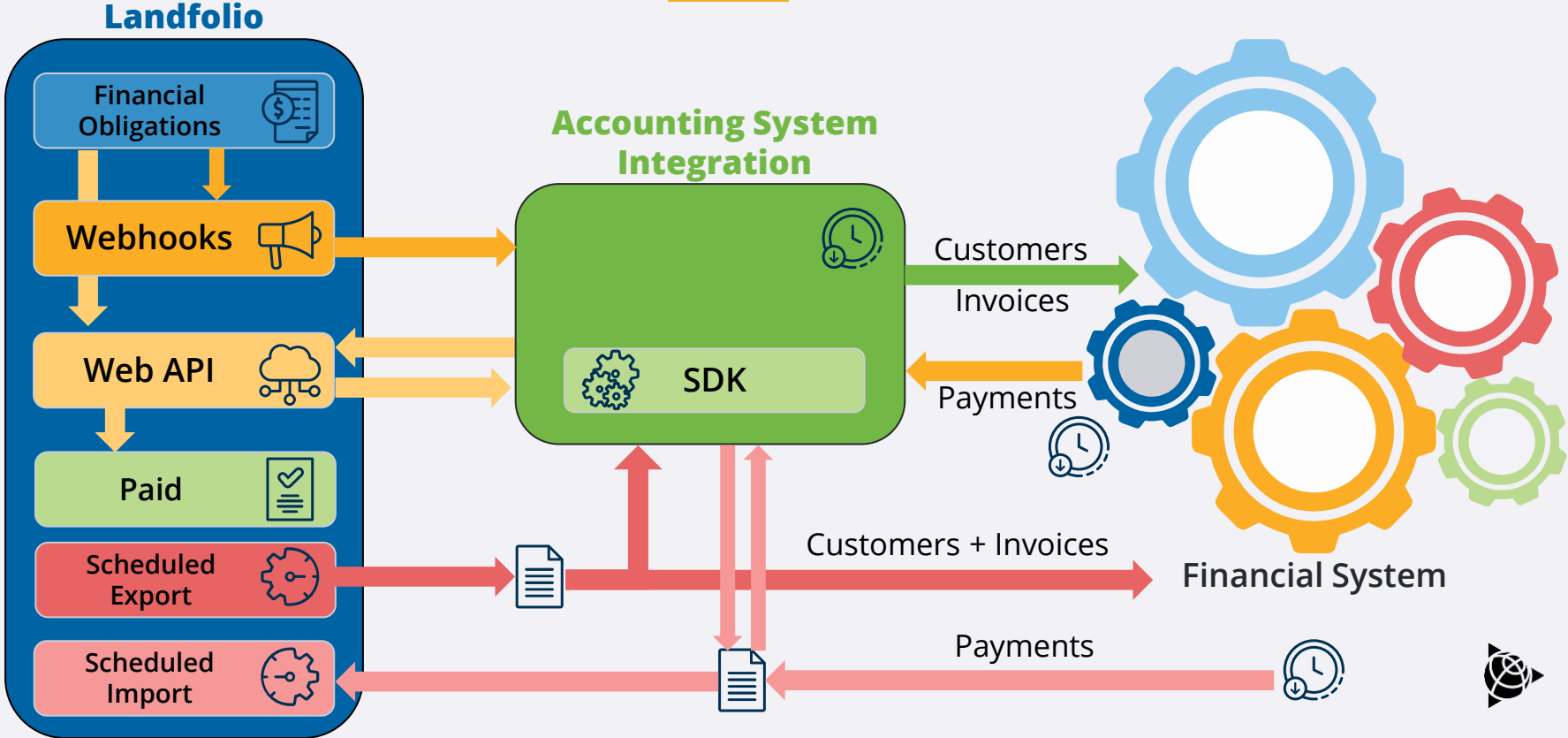


# Spreadsheet to Structured Data

## Landfolio



# Financial Systems



# More Integrations

---

- Penalty Payments + Royalties
- Document Repositories
- Metadata Services
- Field Software
- GIS Data Replication





# Thank You

## Credits

### Implementation Engineering Team

Alvaro Goncalves

Ash Fourie

Leon Thornton

Jonathan Erasmus

For Questions  
or Feedback  
please contact:

[jonathan\\_dauids@trimble.com](mailto:jonathan_dauids@trimble.com)

