

2023 Prometheus Group European User Conference

How OMV uses RiskPoynt with SAP to drive Operational Improvements

Presenter: Karolina Tarkowska-Malik
Düsseldorf, June 1, 2023



Agenda

1	Introduction
2	Barrier Management Implementation
3	Barrier Management Principles
4	Barrier Management SAP PM Integrations
5	Barrier Management Benefits

2023 Prometheus Group European User Conference

Introduction

- **Karolina Tarkowska-Malik**

- *Senior Integrity Expert*
- M.Sc. Chemical and Process Engineering
- OMV Energy, Austria
- 10+ years maintenance and integrity engineering
- ISO 9001 Quality Auditor



2023 Prometheus Group European User Conference

Introduction

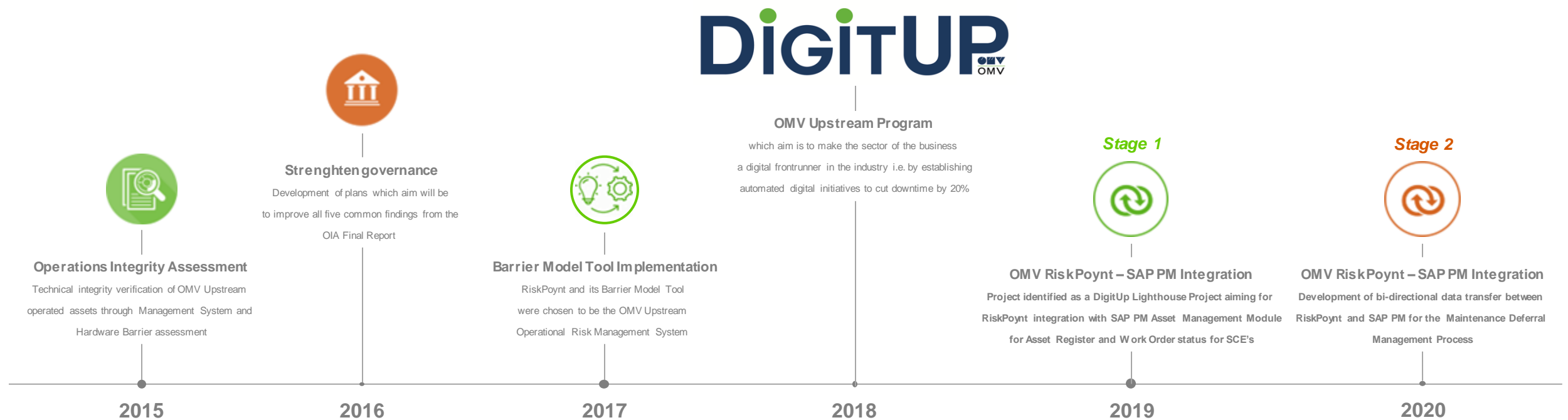
- **OMV Group**

- *Vienna, Austria*
- Austrian international, integrated oil, gas and chemicals company
- Founded **1956**
- Number of employees **22,400** (2021)
- OMV Energy production: **486 kboe/d** (2021)
- **OMV Energy** present in **4 core regions**:
 - Central & Eastern Europe
 - Middle East & Africa
 - North Sea
 - Asia-Pacific



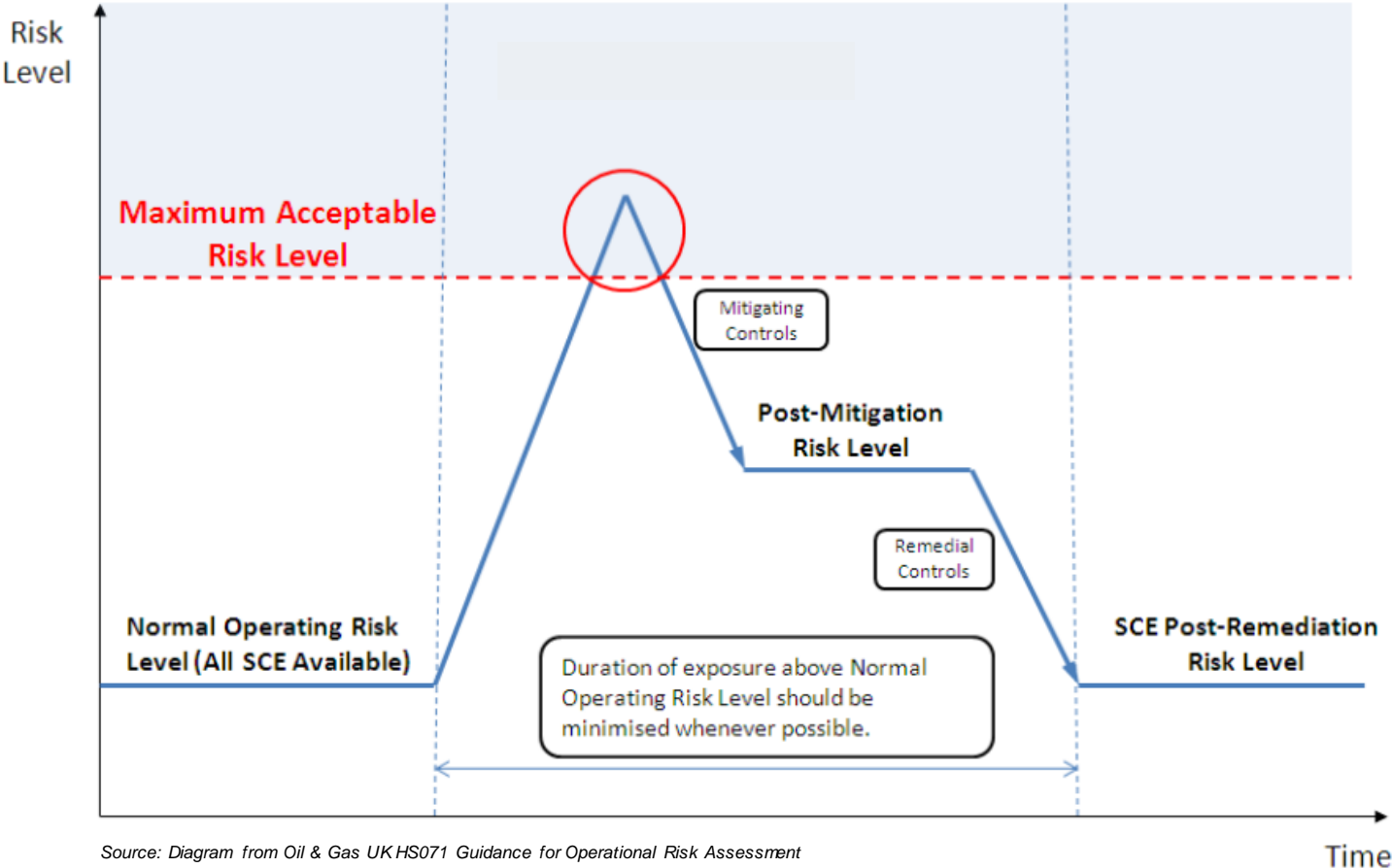
2023 Prometheus Group European User Conference

Barrier Management Implementation



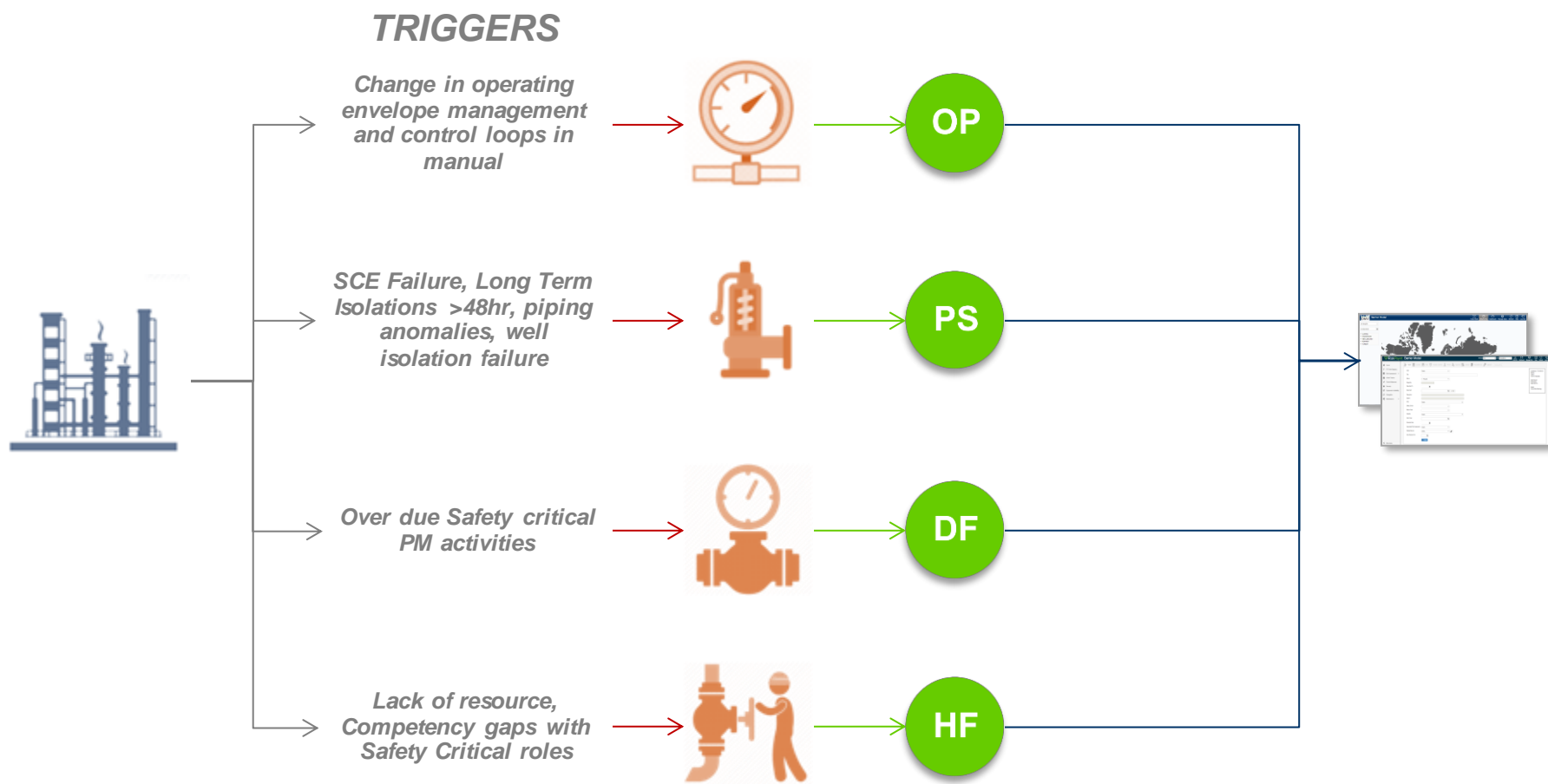
2023 Prometheus Group European User Conference

Barrier Management Principles



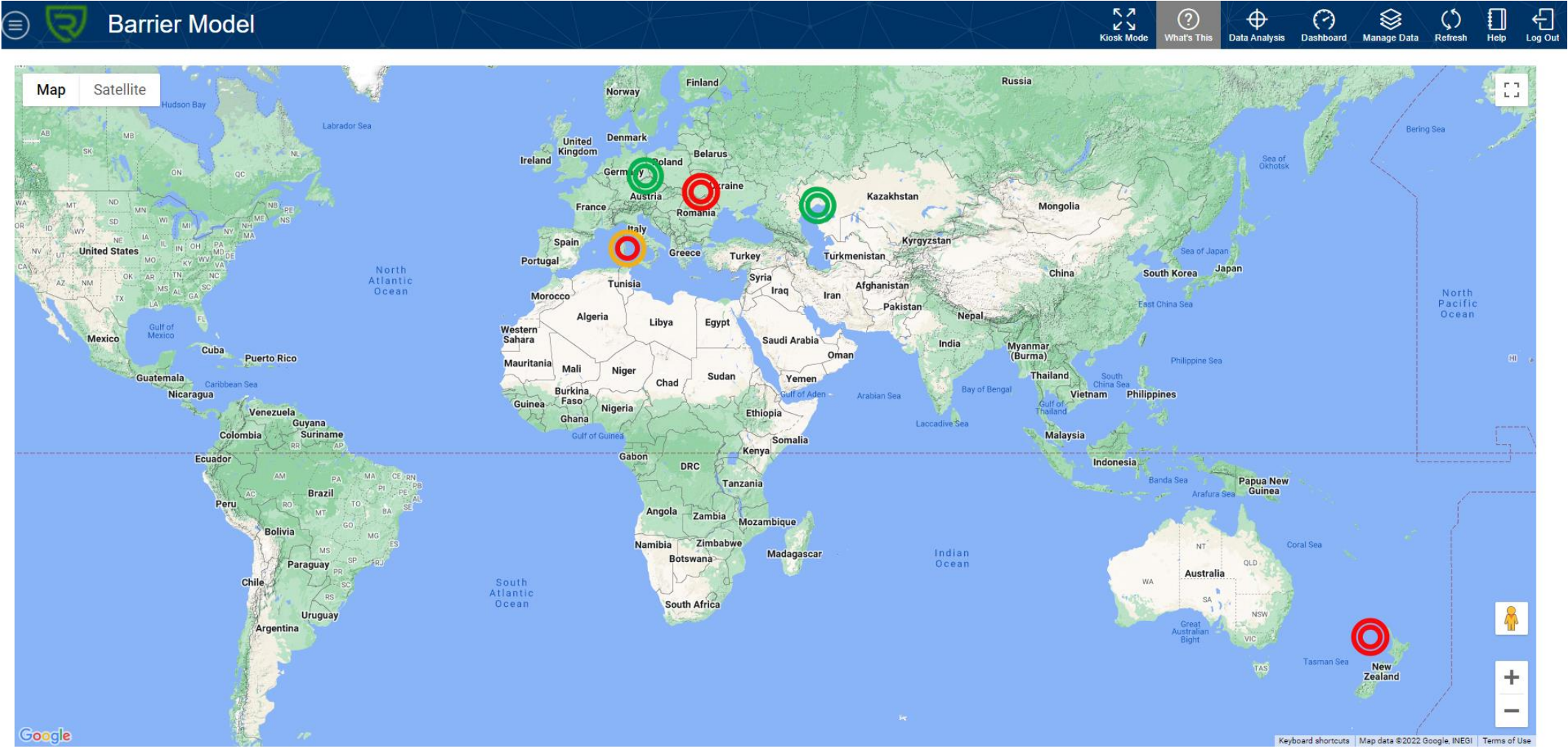
2023 Prometheus Group European User Conference

Barrier Management Principles



2023 Prometheus Group European User Conference

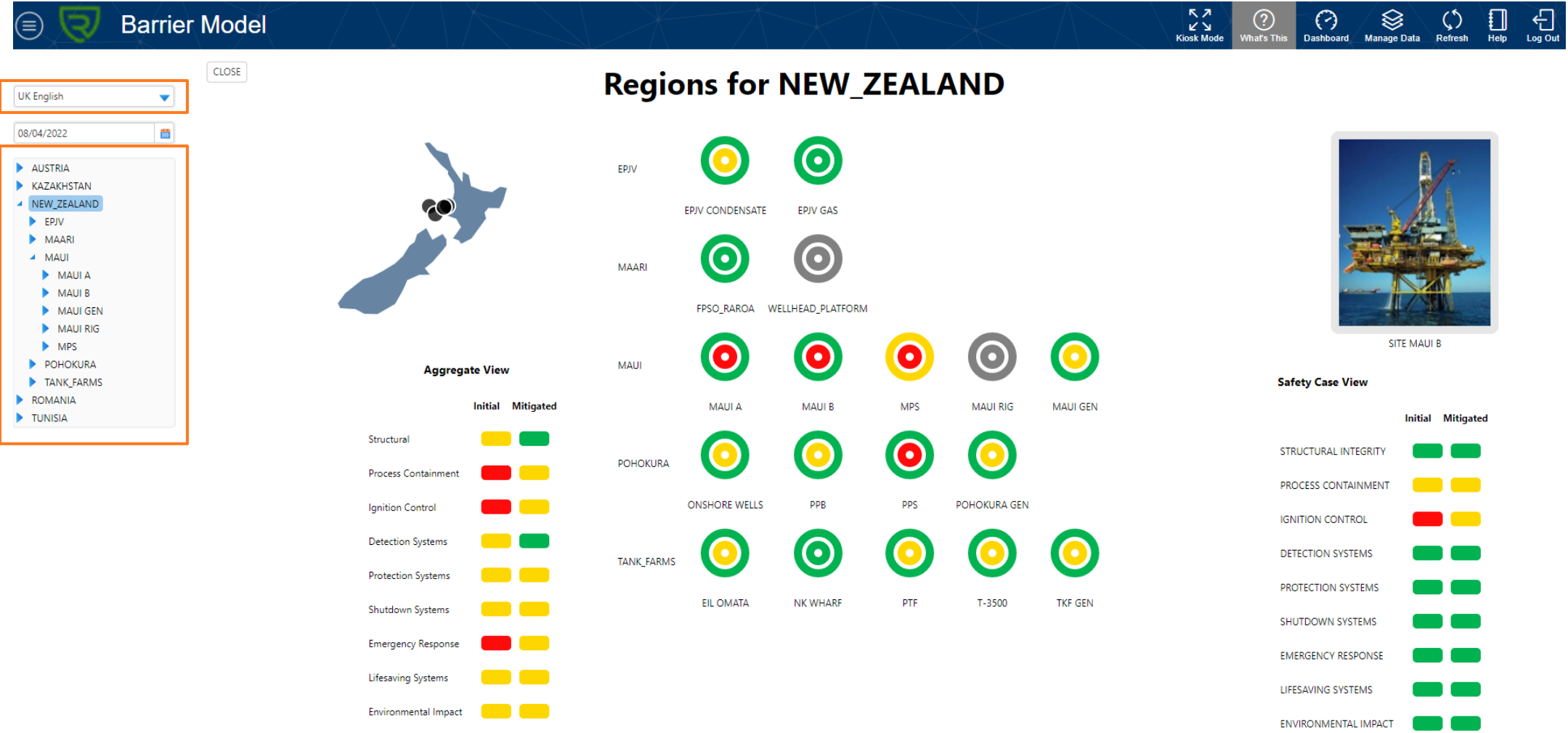
Barrier Management Principles



Source: OMV RiskPoynt QA (TEST System Data)

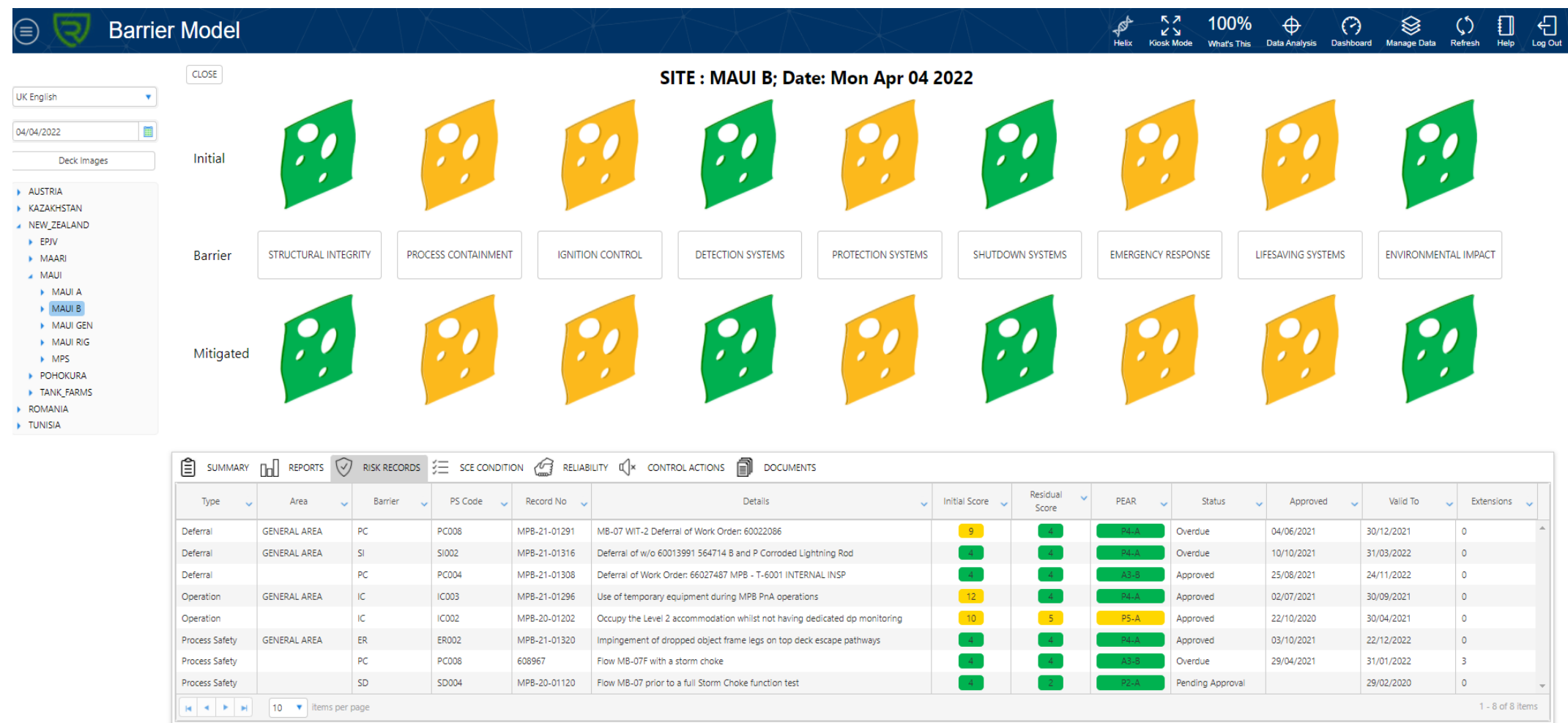
2023 Prometheus Group European User Conference

Barrier Management Principles



2023 Prometheus Group European User Conference

Barrier Management Principles



Barrier Model Version 6.2.8 (c) PERMCO LLC 2021

User X452183: Last Login 04-APR-2022 09:46:10 UTC

Source: OMV RiskPoynt QA (TEST System Data)

2023 Prometheus Group European User Conference

Barrier Management Principles

RiskPoynt

Barrier Model

MAUI

MAUI B

X452183

Dashboard

Manage Data

Help

Refresh

Log Out

Home

PS Code Mapping

Deferrals

Risk Assessment

Action Tracker

Shift Awareness

Control Measures

Control Availability

Security

Delegation

Maintenance

System Setup

Create

Type

Select...

Title

Status

1 - Request

Raised By

Date Valid To

Equipment

Description

System

Area

Select...

Safety Critical

Yes

Barrier Code

STRUCTURAL INTEGRITY

PS/SCE

Select...

Schedule Date

Related Bow-tie

Select...

Header

Summary

Team

Hazards & Controls

Review

Approvals

Closeout

Associated Docs

Impactors

Pending Actions

Installation:
RA No:
Title:
Status:
Source Language:

Date Raised:
Extensions:
Date Valid To:
Number of Days:

PEAR:
Overall Risk Ranking:

Last Updated By:

Barrier Model Version 6.2.8 (c) PERMCO LLC 2021

User X452183: Last Login 04-APR-2022 09:46:10 UTC

Source: OMV RiskPoynt QA (TEST System Data)

2023 Prometheus Group European User Conference

Barrier Management Principles

RiskPoynt Barrier Model

- Home
- PS Code Mapping
- Deferrals
- Risk Assessment
- Action Tracker
- Shift Awareness
- Control Measures
- Control Availability
- Security
- Delegation
- Maintenance
- System Setup

Header
Summary
Team
Hazards & Controls
Review
Approvals
Closeout
Associated Docs
Impactors

Hazard

		Initial			Residual			
	Hazard	SV	LH	Risk	SV	LH	Risk	PEAR
Add New Record Edit Delete	AAssessment based on incremental risk of operating with Storm choke vs TRSCSSSV. Evaluated on the credible leak size of 1mm of (i) below LMV (via tubing hanger seals, SRL seals or metal gaskets) or (ii) LMV/HMV (via gaskets or grease fittings). In the unlikely case of ignition, jet flame of 3m would be observed (unlikely to escalate considering adjacent wells have SCSSSVs installed) and escape routes would be impaired by up to 4m (SkW/m2), deluge system would activate. People: B3 Major injury or health effect. Fatality only in unlikely case of ignition and personnel was standing right at the wellhead at leak source. Wellhead area is not continuously manned. Platform in unmanned for half the year Multiple barrier failures required for release due to small credible leak size and SCSSSVs on neighbouring wells which would limit inventory if impinged upon. Refer to MB-07F HAZID screening options attachment for full detailed RAM.	P3	B	4	P3	B	4	P3-B
Edit Delete	Asset: B3 Moderate damage if ignited, 1mm hole could produce 3m Jet fire, damage neighbouring equipment. Deluge system will activate. \$1-10minUSD.	A3	B	4	A3	B	4	A3-B
Edit Delete	Community: B3 Moderate effect. Local or regional public concern. Government are aware. LOC would be reported to government (EPA + MINZ).	P3	B	4	P3	B	4	P3-B

Control

	Control	Control Type	Action	Frequency	Schedule
Add New Record Edit Delete	Continuous monitoring of well performance and reset closure pressure as required	Supplemental	<input type="checkbox"/>		
Edit Delete	Yearly SIT testing (normally 2 yearly)	Supplemental	<input type="checkbox"/>		

Pending Actions

 Installation: MAUI B
 RA No: 608967
 Title: Flow MB-07F with a storm choke
 Status: Overdue
 Source Language: ENUK

 Date Raised: 31/05/2018
 Extensions: 3
 Date Valid To: 31/01/2022
 Number of Days: 340

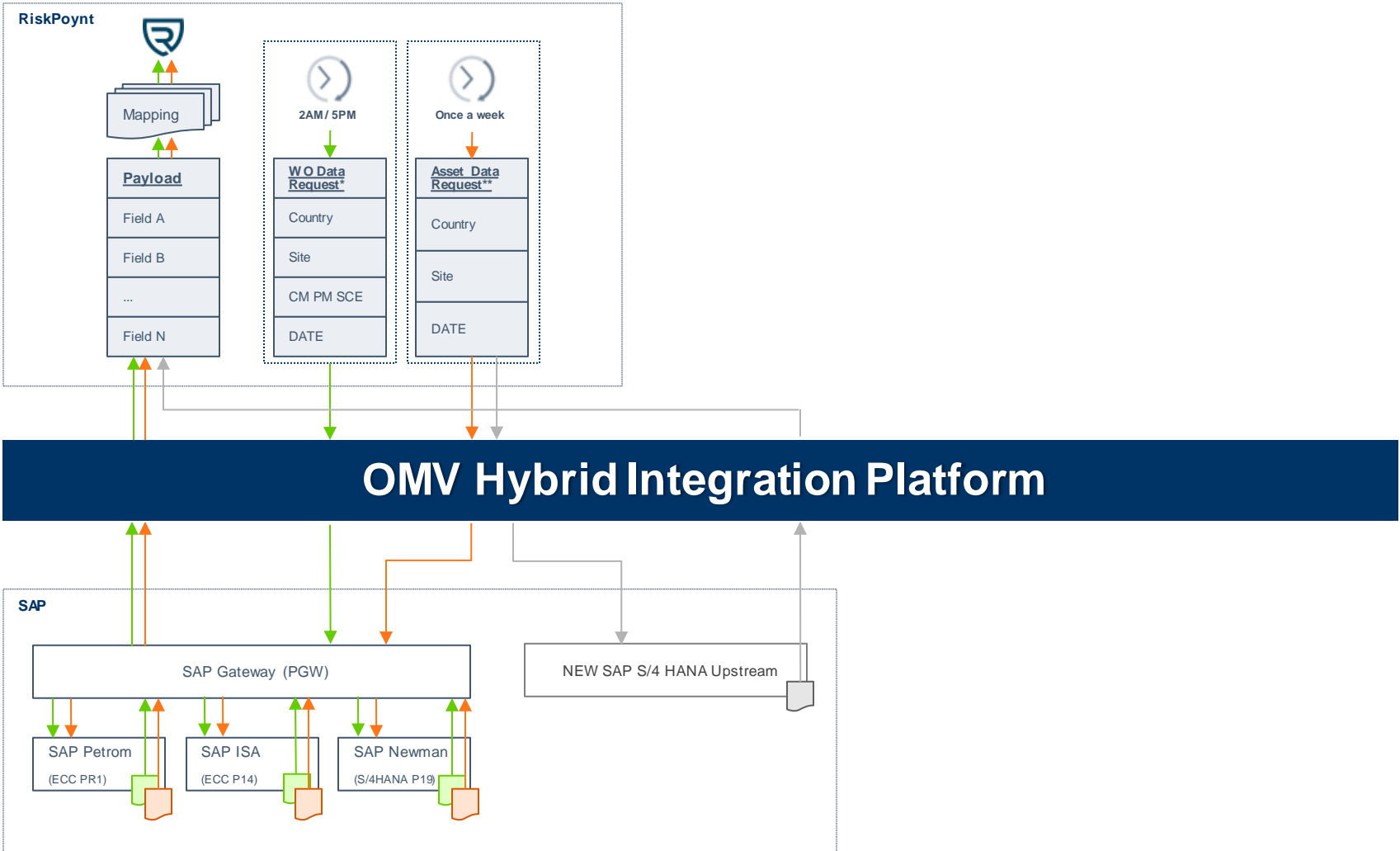
 PEAR: A3-B
 Overall Risk Ranking:

Last Updated By: RODNEY6
 31/01/2022 01:46

Barrier Model Version 6.2.8 (c) PERMCO LLC 2021

Source: OMV RiskPoynt QA (TEST System Data)

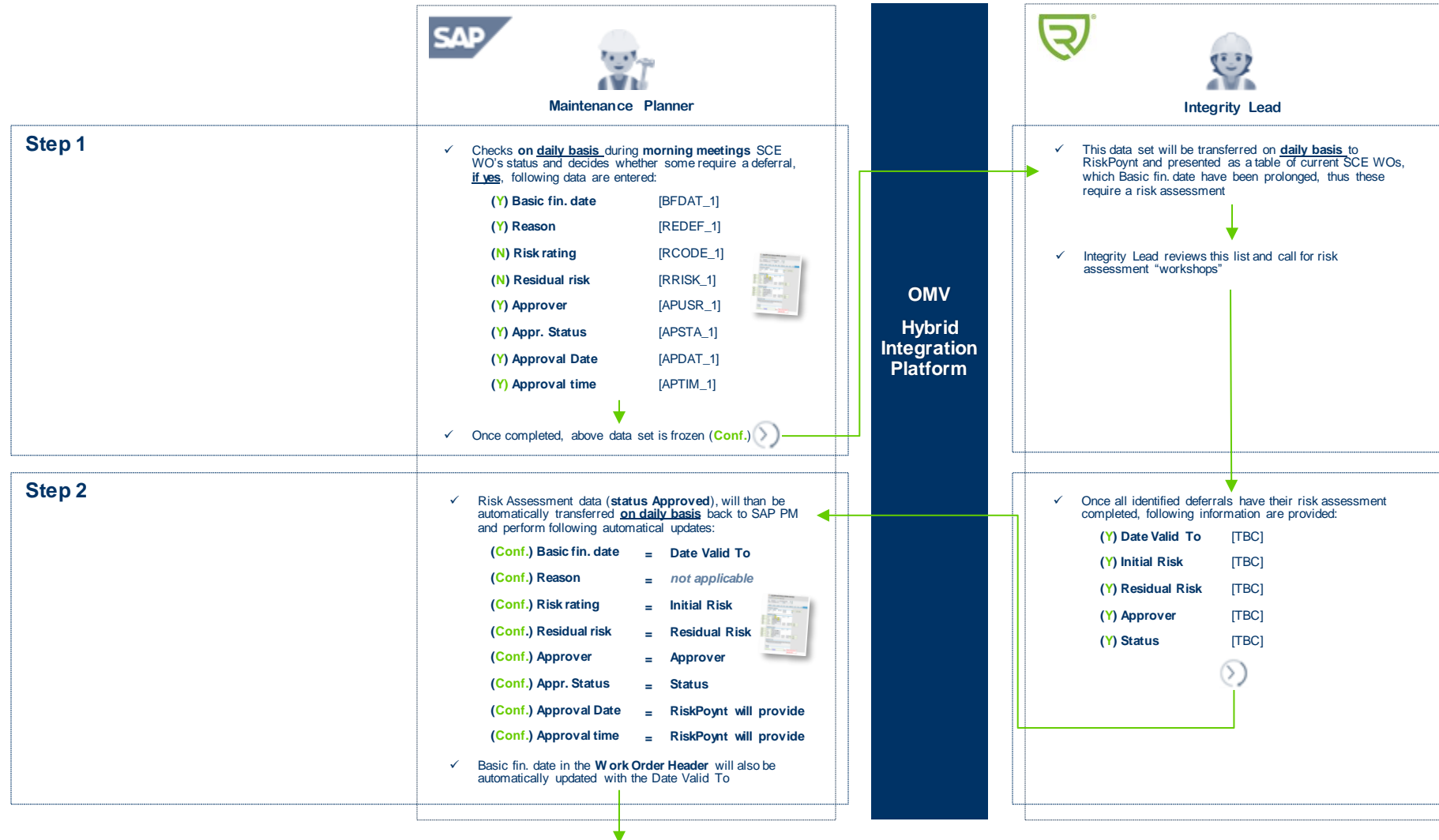
Barrier Management SAP PM Integrations (Part 1)



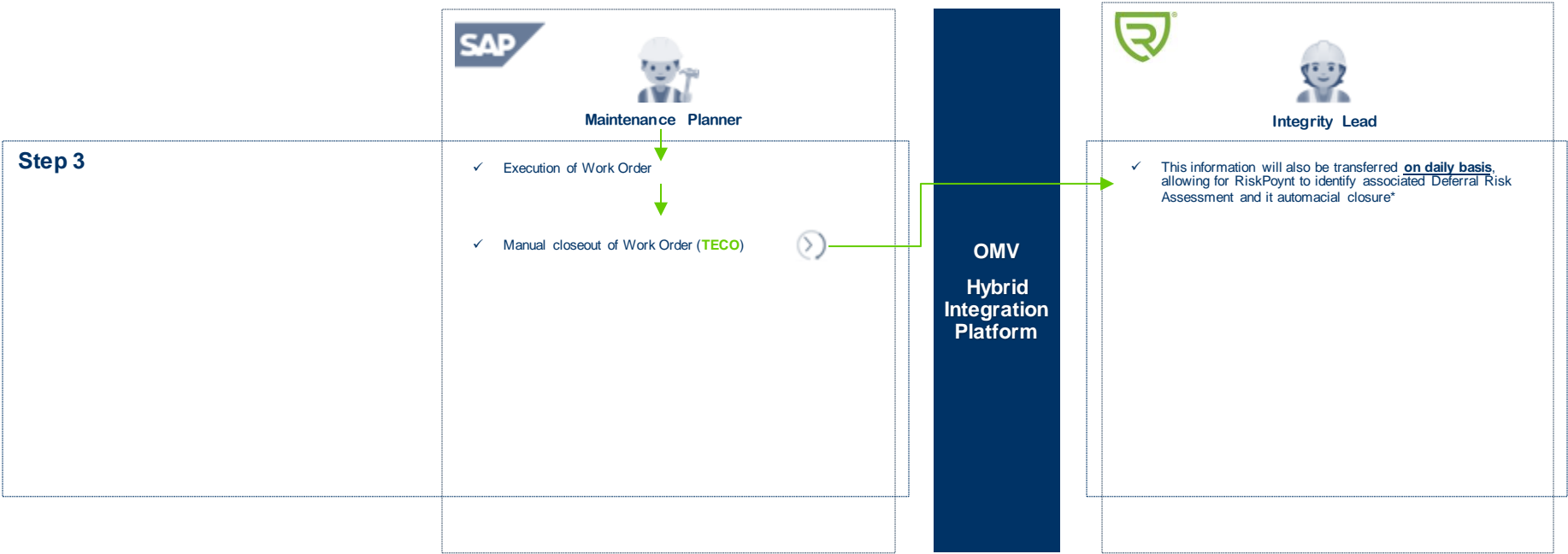
Barrier Management SAP PM Integrations (Part 1)



Barrier Management SAP PM Integrations (Part 2)



Barrier Management SAP PM Integrations (Part 2)



Barrier Management Benefits

- All Operational Risk Assessment centrally located, transparent and auditable
- Hardware Barrier condition visually presented enabling quicker and better decision-making for safe operations
- Residual risk monitored, mitigation measures tracked, and recovery plans followed
- Standardized and automated risk assessment workflow easily accessible for both field and office personnel
- Bi-Directional Integration for the SCE Maintenance Deferral Process has enforced:
 - Process Safety Culture
 - Standard Compliance
 - Interdisciplinary Communication

2023 Prometheus Group European User Conference

Q&A



Legal Disclaimer

This presentation is prepared in order to outline our expression of interest. Nothing in this presentation shall be construed to create any legally binding obligations on any of the parties. Neither party shall be obligated to execute any agreement or otherwise enter into, complete or affect any transaction in relation to this presentation.

All figures and information in this presentation are strictly confidential, they are by no means binding and thus indicative only.

© 2022 OMV Exploration & Production GmbH, all rights reserved, no reproduction without our explicit consent.

