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The companies in which Royal Dutch Shell plc directly and indirectly owns investments are separate legal entities. In this presentation "Shell", "Shell group" and "Royal Dutch Shell" are sometimes used for convenience where references are made to Royal Dutch Shell plc and its subsidiaries in general. Likewise, the words "we", "us" and "our" are also used to refer to Royal Dutch Shell plc and subsidiaries in general or to those who work for them. These terms are also used where no useful purpose is served by identifying the particular entity or entities. "Subsidiaries", "Shell subsidiaries" and "Shell companies" as used in this presentation refer to entities over which Royal Dutch Shell plc either directly or indirectly has control. Entities and unincorporated arrangements over which Shell has joint control are generally referred to as "joint ventures" and "joint operations", respectively. Entities over which Shell has significant influence but neither control nor joint control are referred to as "associates". The term "Shell interest" is used for convenience to indicate the direct and/or indirect ownership interest held by Shell in an entity or unincorporated joint arrangement, after exclusion of all third-party interest.

This presentation contains forward-looking statements (within the meaning of the U.S. Private Securities Litigation Reform Act of 1995) concerning the financial condition, results of operations and businesses of Royal Dutch Shell. All statements other than statements of historical fact are, or may be deemed to be, forward-looking statements. Forward-looking statements are statements of future expectations that are based on management's current expectations and assumptions and involve known and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those expressed or implied in these statements. Forward-looking statements include, among other things, statements concerning the potential exposure of Royal Dutch Shell to market risks and statements expressing management's expectations, beliefs, estimates, forecasts, projections and assumptions. These forward-looking statements are identified by their use of terms and phrases such as "aim", "ambition", "anticipate", "believe", "could", "estimate", "expect", "goals", "intend", "may", "objectives", "outlook", "plan", "probably", "project", "risks", "schedule", "seek", "should", "target", "will" and similar terms and phrases. There are a number of factors that could affect the future operations of Royal Dutch Shell and could cause those results to differ materially from those expressed in the forward-looking statements included in this [report], including (without limitation): (a) price fluctuations in crude oil and natural gas; (b) changes in demand for Shell's products; (c) currency fluctuations; (d) drilling and production results; (e) reserves estimates; (f) loss of market share and industry competition; (g) environmental and physical risks; (h) risks associated with the identification of suitable potential acquisition properties and targets, and successful negotiation and completion of such transactions; (i) the risk of doing business in developing countries and countries subject to international sanctions; (j) legislative, fiscal and regulatory developments including regulatory measures addressing climate change; (k) economic and financial market conditions in various countries and regions; (l) political risks, including the risks of expropriation and renegotiation of the terms of contracts with governmental entities, delays or advancements in the approval of projects and delays in the reimbursement for shared costs; and (m) changes in trading conditions. No assurance is provided that future dividend payments will match or exceed previous dividend payments. All forward-looking statements contained in this [report] are expressly qualified in their entirety by the cautionary statements contained or referred to in this section. Readers should not place undue reliance on forward-looking statements. Additional risk factors that may affect future results are contained in Royal Dutch Shell's 20-F for the year ended December 31, 2017 (available at www.shell.com/investor and www.sec.gov). These risk factors also expressly qualify all forward looking statements contained in this presentation and should be considered by the reader. Each forward-looking statement speaks only as of the date of this presentation, 03-OCT-2018. Neither Royal Dutch Shell plc nor any of its subsidiaries undertake any obligation to publicly update or revise any forward-looking statement as a result of new information, future events or other information. In light of these risks, results could differ materially from those stated, implied or inferred from the forward-looking statements contained in this presentation.

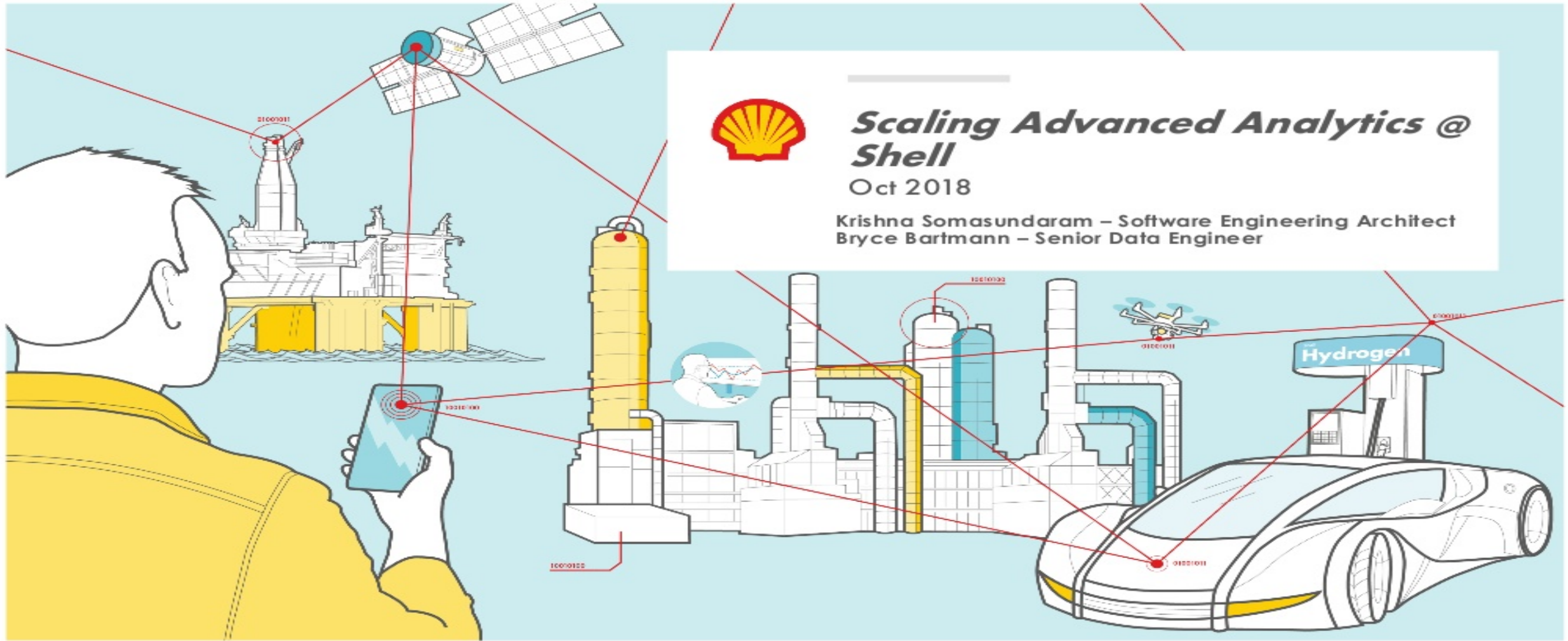
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Scaling Advanced Analytics @ Shell

Oct 2018

Krishna Somasundaram – Software Engineering Architect
Bryce Bartmann – Senior Data Engineer





Shell's Digital Strategy

A coherent approach across Shell to realise and accelerate value through digital led by business and supported by Digital COE

FIVE DIGITAL DESIGN PRINCIPLES



CUSTOMER/USER IS CENTRAL

010101
110011
100100

DATA IS AN ASSET



BUSINESSES OWN DIGITAL



BUILD IN-HOUSE CAPABILITY



ACT OUR WAY INTO THE FUTURE

UNDERPINNING CRITICAL SUCCESS FACTORS



CAPABILITIES



OPERATING MODEL AND WAYS OF WORKING



LEADERSHIP, MIND-SETS AND BEHAVIOUR



Role of the Data Science CoE

1

Select Foundational Technologies

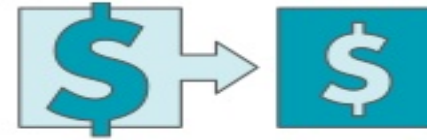
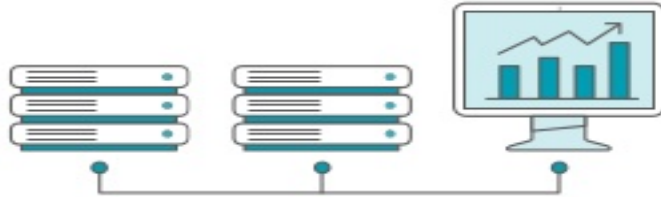
2

Showcase 'Art of the Possible'

3

Facilitate Best Practice Sharing across Shell

Strategic Objective



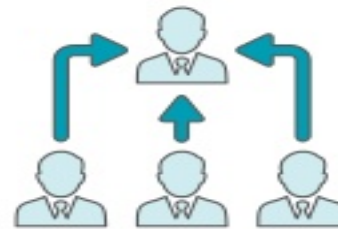
Enablers



Innovation Remit



External Partnerships
and Developing the
Eco System



Core Team with
Technical &
Commercial Skillset



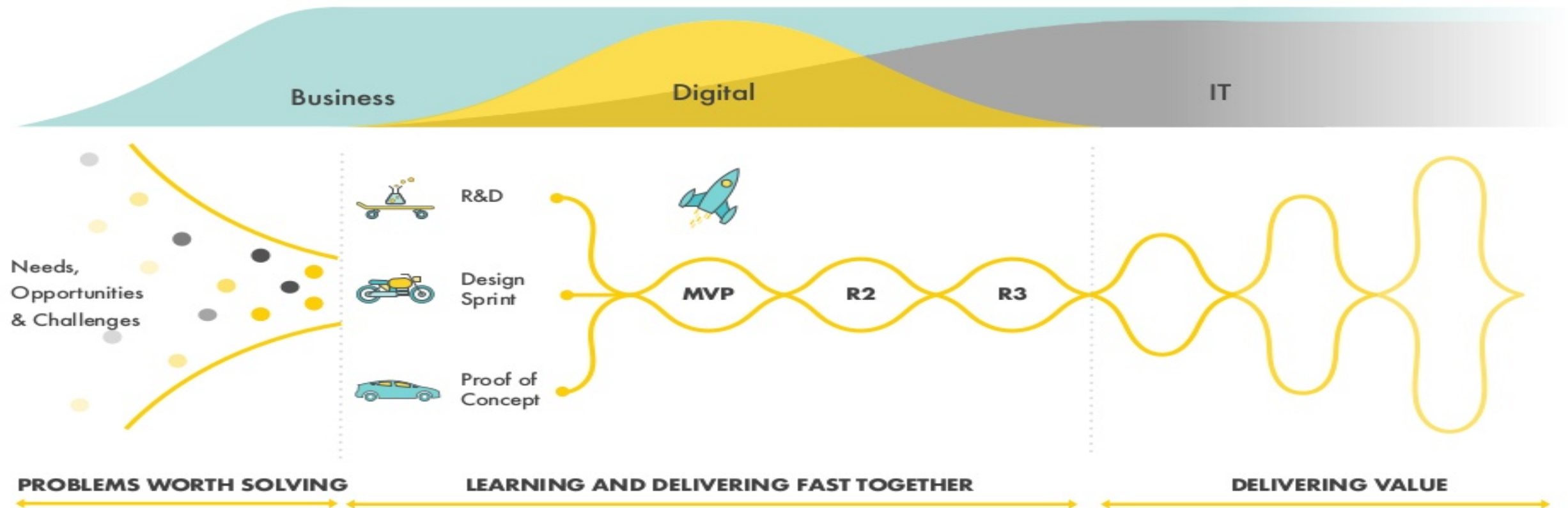
Development of
Digital
Networks



Creation of Digital
Labs for
Experimentation



From an idea to an embedded business capability





Digitalisation Lab

Digitalisation
playground & PoC
incubator sandbox
environment

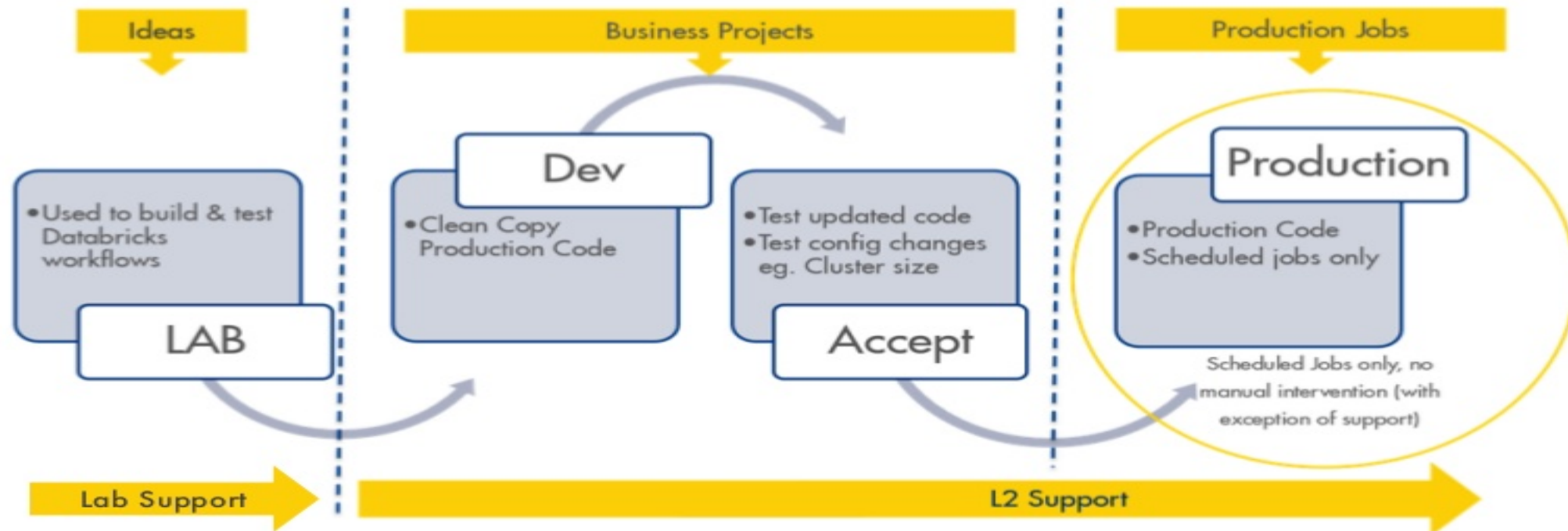
500+ users
across Shell
Businesses

We want as close
integration between
all offerings as
possible





Operationalise - Databricks






Making
the most of
existing
data

Rightsizing
inventory

Copyright of Shell Global Solutions International B.V.



Machine
Learning to
enable 'grey
stock'
identification

Pipe Counting

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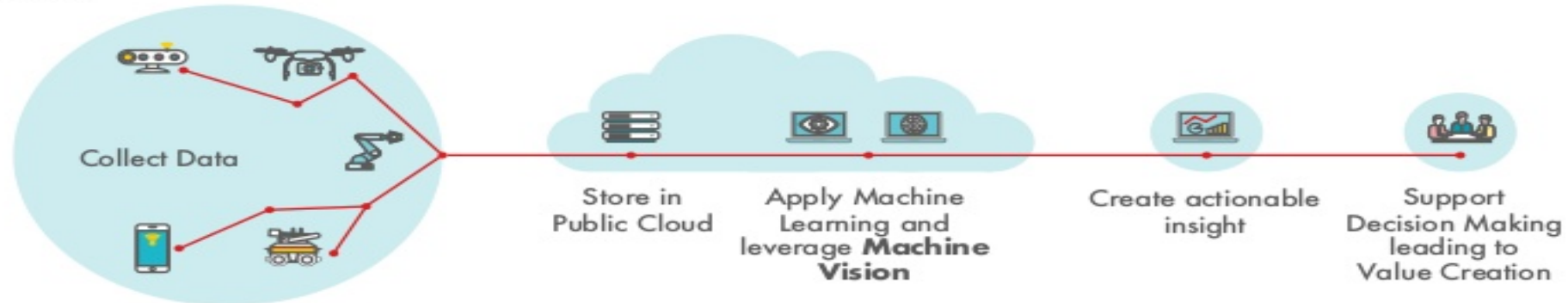
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October 18

8

Augmenting pipe counting & grey stock identification using MV techniques

Primary value-flow:



Algorithm performs with >90% accuracy



101 PIPES



220 PIPES

The background image shows a Shell employee in a red uniform and cap handing coffee to a customer in a car at a drive-through window. The employee is smiling and the customer is also smiling. The car is a dark color. The background is a blurred view of a gas station with a Shell sign.

Optimizing HSSE

Video Analytics for incident tracking & management

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October

1

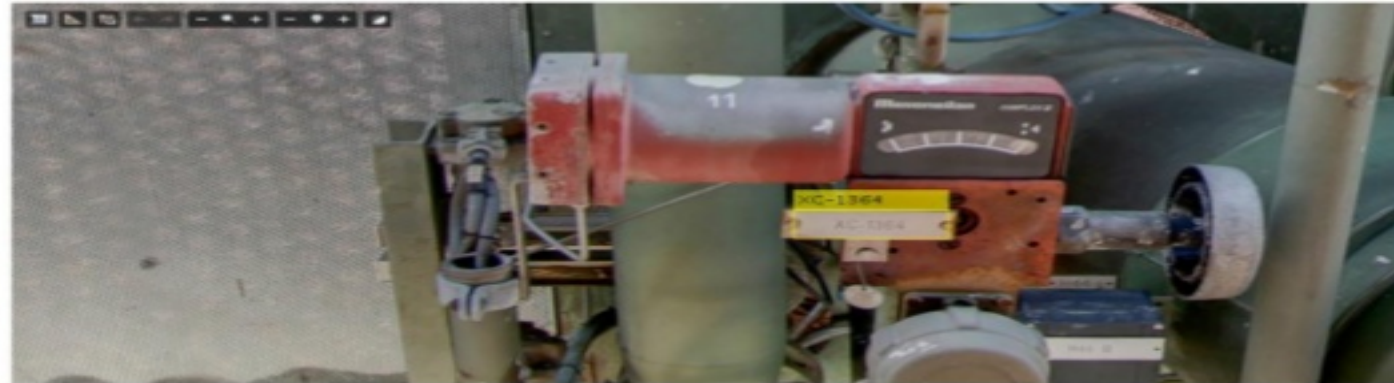
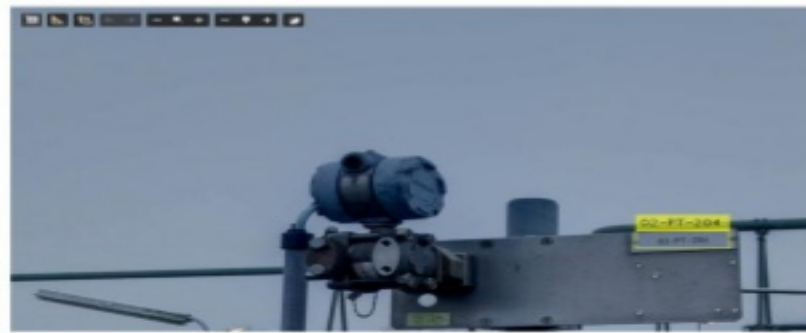


Combination
with Robotics

Asset
monitoring



Business challenge: how can we 1) consistently identify equipment & 2) maintenance history without significant manual effort?



**LABOUR &
OPEX COST
REDUCTION**



**PRODUCTIVITY
INCREASE**



**SAFETY
INCREASES**



Other Machine Vision Possibilities

Leak Detection

Volumetric

Abnormal Heat Signatures

Site Security and Surrounding Conditions

Corrosion Detection

Plume Detection

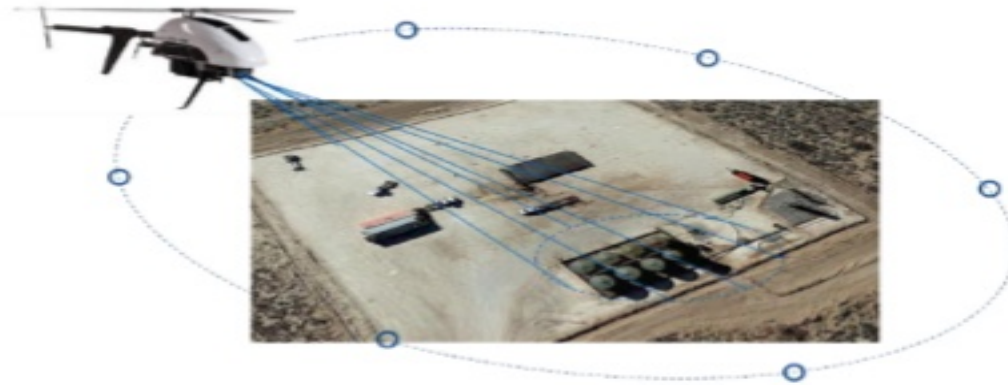


Figure 5: Orbital Flight Pattern Representation



Figure 2: Examples of CLAIR Checklist Inspection Areas or Tasks

Q&A



