Antibiotic Stewardship
By SAS and Cisco Plug & Play AI Appliance

Hosted by Tobias Rosen, Software Specialist EMEA

Agenda

Panel – Healthcare on Cisco

Hosted by Tobias Rosen

Dr. Michael von Wagner
CMIO
Universitaetsklinikum Frankfurt

Christian Hardahl
EMEA Healthcare Industry Leader
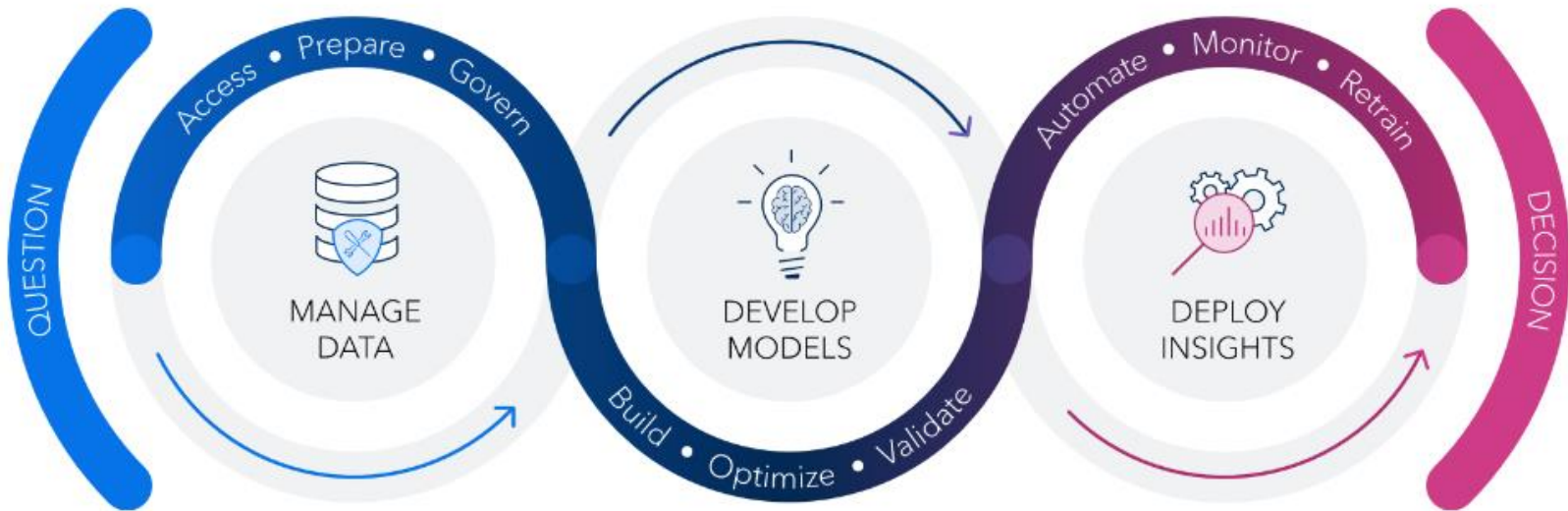SAS Institute

Boris Aelen
Technical Marketing Engineer
Cisco

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Dr. Michael von Wagner
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SAS Institute

Boris Aelen
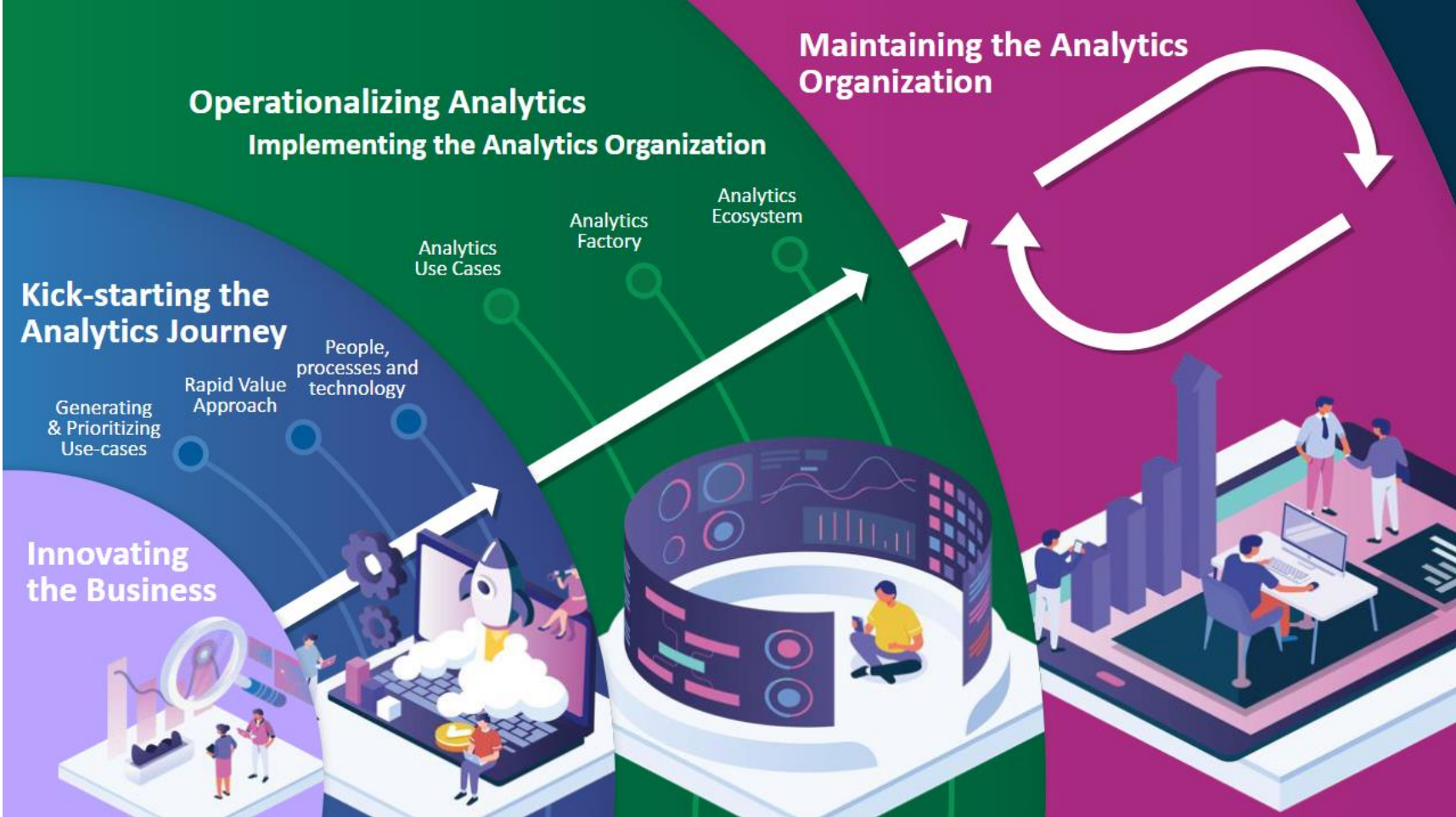Technical Marketing Engineer
Cisco

QUESTION

Access • Prepare • Govern

MANAGE DATA

Build • Optimize • Validate

DEVELOP MODELS

Automate • Monitor • Retrain

DEPLOY INSIGHTS

DECISION

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Kick-starting the Analytics Journey

Innovating the Business

Generating & Prioritizing Use-cases

Rapid Value Approach

People, processes and technology

Operationalizing Analytics
Implementing the Analytics Organization

Analytics Use Cases

Analytics Factory

Analytics Ecosystem

Maintaining the Analytics Organization

Fast and augmented diagnostics in Acute Departments

What are we trying to achieve with AI

9. Early and correct diagnostic / treatment

8. Risk assessment of patient outcomes and diagnostic suggestions for doctors

1. Patient gets blood test

7. Applying AI algorithms on data

2. Shipment of blood samples to laboratory

6. Results of analysis sent to SAS Viya Server / SAS ESP

Diagnostic Expert Systems Consuming Health Care Process in 60 minutes

3. Receipt of blood test

5. Blood test analysis using robots

4. Distribution by Robot

Results & conclusions

1. In USA, a survey found that 35-40% are misdiagnosed in the emergency department and 14% of undiagnosed patients die

2. This use case has + 20 models on varius patient outcome predictions and most likely diagnosis

3. AI can predict a person's risk for having a server outcome and which diagnosis is most likely going to occur.

4. The risk can be shared with doctors and patient to augment the clinical evalutation

5. Scientific article under development

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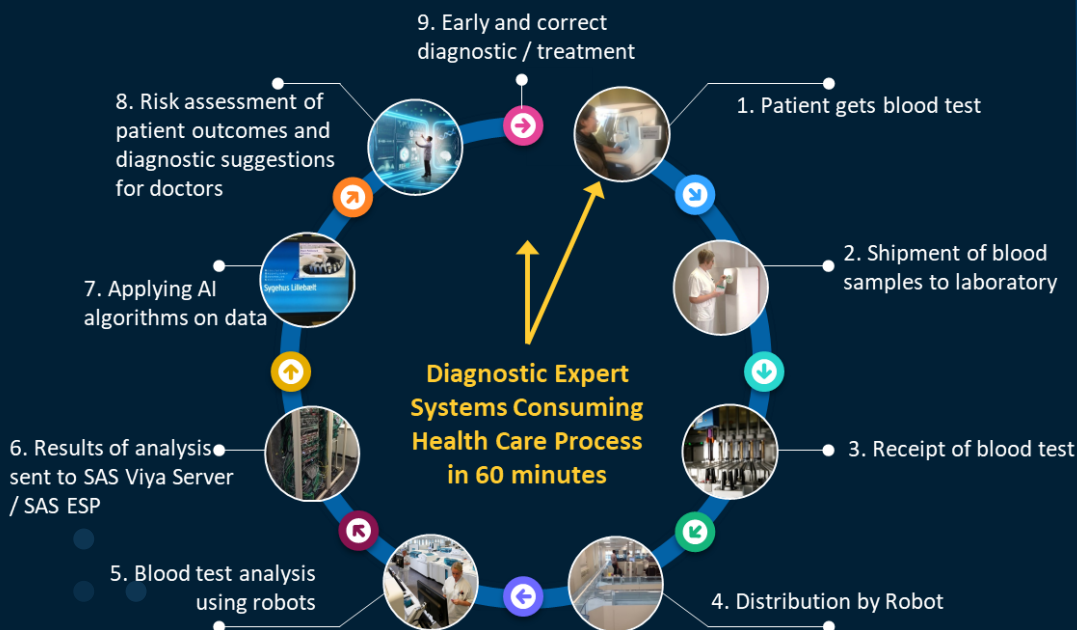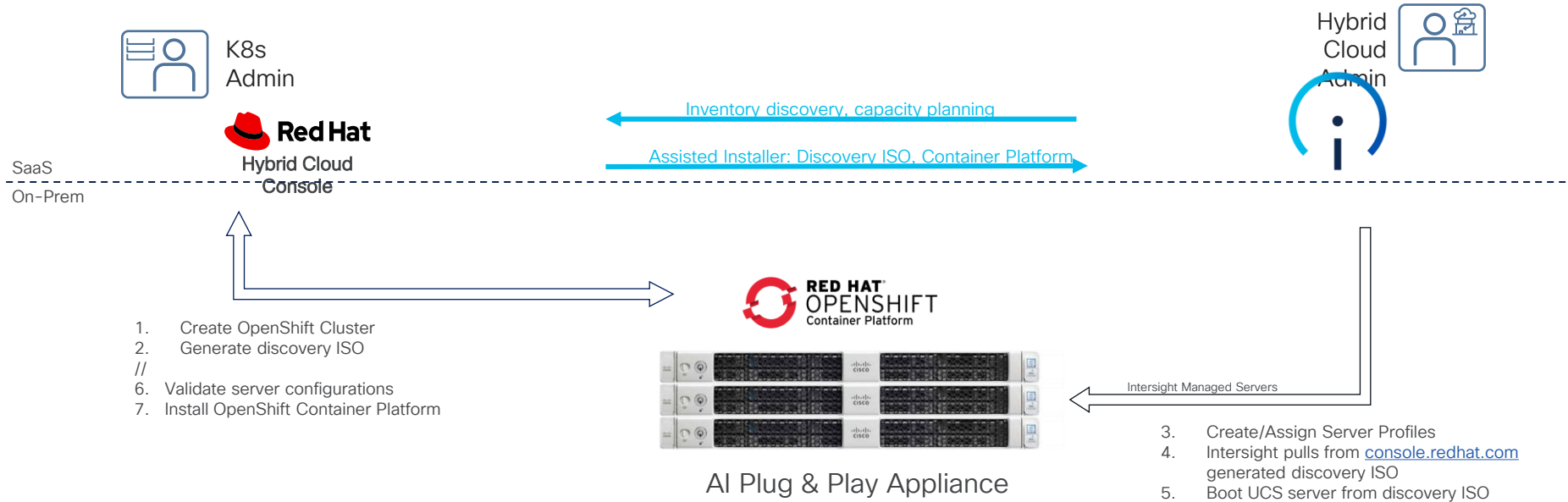SAS Institute

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Technical Marketing Engineer
Cisco

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Day 0: Bare Metal Cluster Zero Deployment

Bare Metal Challenges

- Labor intensive configurations of hardware (BIOS, RAID and CI Storage) and software initialization (Discovery ISO)
- Lack of visibility into available cross-domain infrastructure capacity (compute, network & storage)
- Error prone hardware settings and software configurations

K8s Admin

Red Hat
Hybrid Cloud Console

Hybrid Cloud Admin

Inventory discovery, capacity planning

Assisted Installer: Discovery ISO, Container Platform

SaaS
On-Prem

RED HAT OPENSHIFT Container Platform

1. Create OpenShift Cluster
2. Generate discovery ISO
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6. Validate server configurations
7. Install OpenShift Container Platform

AI Plug & Play Appliance

Intersight Managed Servers

3. Create/Assign Server Profiles
4. Intersight pulls from console.redhat.com generated discovery ISO
5. Boot UCS server from discovery ISO

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Leader
SAS Institute

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Technical Marketing
Engineer
Cisco

Thank you

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