



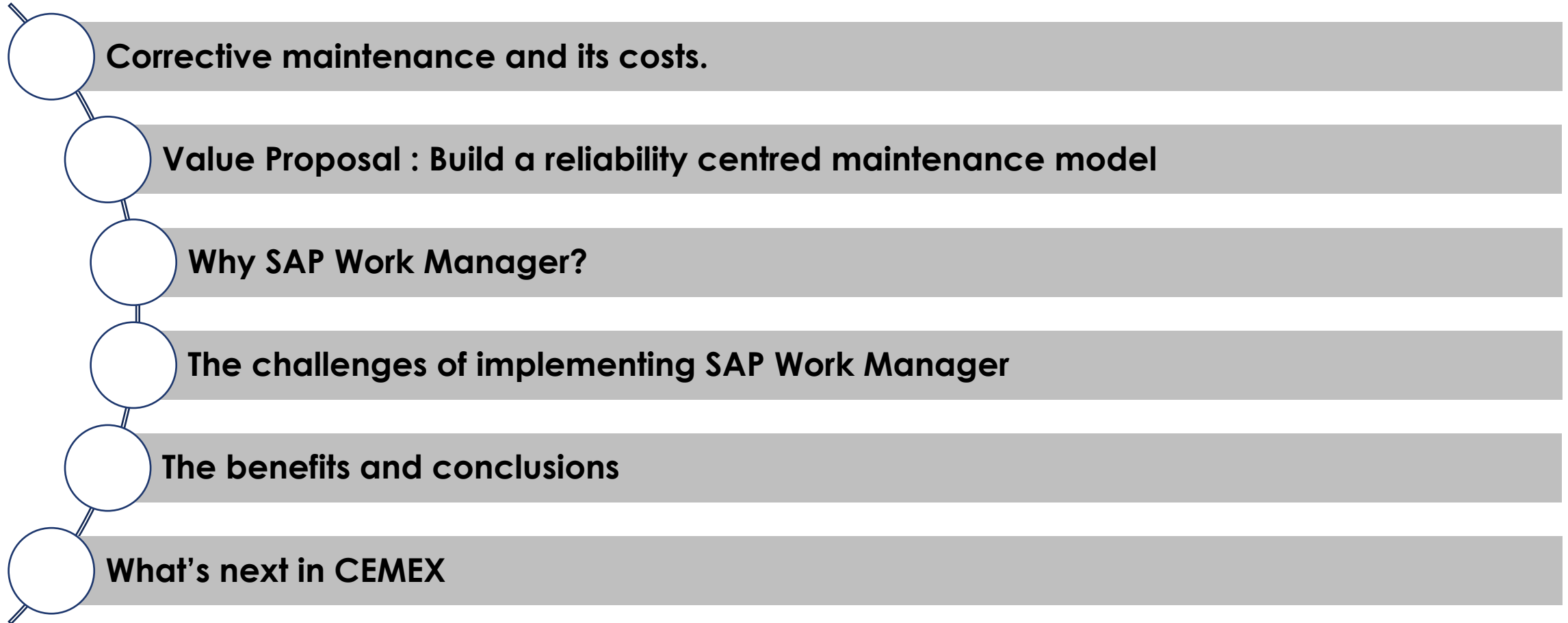
Heydar Aliyev Center, Azerbaijan

Leveraging Digital Tools to Build a Reliability Centred Maintenance Model Through SAP Work Manager

Carlos Augusto Mantilla Espinosa



Agenda



A leading global building materials company



We supply cement, ready-mix concrete, and aggregates, as well as a range of other construction products and services

Corrective maintenance and its costs

Corrective Maintenance makes your equipment **unreliable**
Unproductive time related with equipment

- **Major costs**
- **Reduce assets lifetime**
- **Potential health and safety issues due to lack of planning.**
- **Real capacity reduction and increases energy consumption.**



Building a Reliability Centred Maintenance Model is a priority for CEMEX in order to achieve those strategic goals.

Value Proposal : Build a reliability centred maintenance model

CEMEX Maintenance strategic goals:

- Maximizing productivity and extend and improve asset life and reliability
- Reduce downtime and maintenance backlog
- Reduce the number of incidents or near-miss related with lack of maintenance
- Environmental Impact reduction (Zero4Life)
- More Safety, +Visibility, +Compliance,



**Failure prevention
culture**



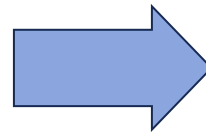
**+ accurate
communications**



**+quantity and quality of
asset condition's data**

Why SAP Work Manager?

After reviewing the process and understanding its pain points, it was necessary to find the right digital tool to take our Maintenance Model to the next Level:



Inspection Rounds Management



Notification Management



Work Order Management



SAP Integration



Mobile Solution for Field Workers

Why SAP Work Manager?

Inspection Rounds Management

- User can have organized the personnel information
- Shifts and positions can be defined
- Massive assignment of Work Orders for Autonomous Maintenance Teams

Notification Management

- Notifications Creation & Update
- Attachments can be added to notifications (multimedia)
- Barcode Reading

Work Order Management

- Work Order Creation & Update
- Orders can be assigned to several users
- Equipment technical documentation can be attached
- Register and trace Work Order technical closure

Autonomous Management

- Inspection rounds for multiple equipment
- Instruction documentation download
- Enter Equipment Operation Parameters
- Validation of critical activities execution
- Balance the load of autonomous maintenance WO
- Create autonomous maintenance plans
- Analyze main KPI's for autonomous maintenance

The challenges of implementing SAP Work Manager

Implementing and maintaining SAP Work Manager is not only a change in the system's architecture, but a cultural change in the operations team:

Operations Buy –In

Cultural change management and increase preventive maintenance mindset.

Availability of Skilled People to implement and support

Mobile Devices Manteinability.

The benefits and conclusions

Leveraging on digital tools such as SAP Work Manager, helped us change our maintenance model from reactive to proactive approach and achieve a Reliability Centered Maintenance Model:

Prevent equipment stoppages

Increase efficiency within our plants

Reduce energy costs

Reduce environmental impact

Improve the maintenance planning process

Reduce the spare parts inventory

Reduce the time required to execute the maintenance

Monitor the maintenance execution

Improve communications between the field operators and the management

What's Next in CEMEX



Q&A

THANK YOU