



ACHIEVING **HIGH PERFORMANCE SAFETY** USING INTEGRATED DIGITAL INNOVATIONS

AGENDA

01

DRIVERS FOR HSE DIGITALIZATION

02

LEVERAGING A SAFETY SCORECARD TO SHIFT FROM LAGGING INDICATORS TO PROACTIVE METRICS

03

FACTORY 4.0 AND HSE 4.0 – ENABLING THE CONNECTED WORKER AND BUILDING SAFER WORKPLACES





The Joy of Writing™



OUR PRODUCTS

✓ STATIONERY

✓ SHAVERS

✓ LIGHTERS



Manufacturing locations

- 15 locations are dedicated to manufacturing Stationery products ⁽¹⁾ ⁽²⁾ ⁽³⁾;
- 6 locations are dedicated to manufacturing Lighters;
- 4 locations are dedicated to manufacturing Shavers.



DRIVERS FOR HSE DIGITALIZATION

/// Digitalization, according to Gartner Inc., is the process of employing digital technologies and information to transform business operations **///**

DRIVERS



Lack of time to read and follow all rules



Active learning about safe working procedures



Lack of global standards and process



Trackability of data



Variety of data sources and risk registers including management of change



Data analytics

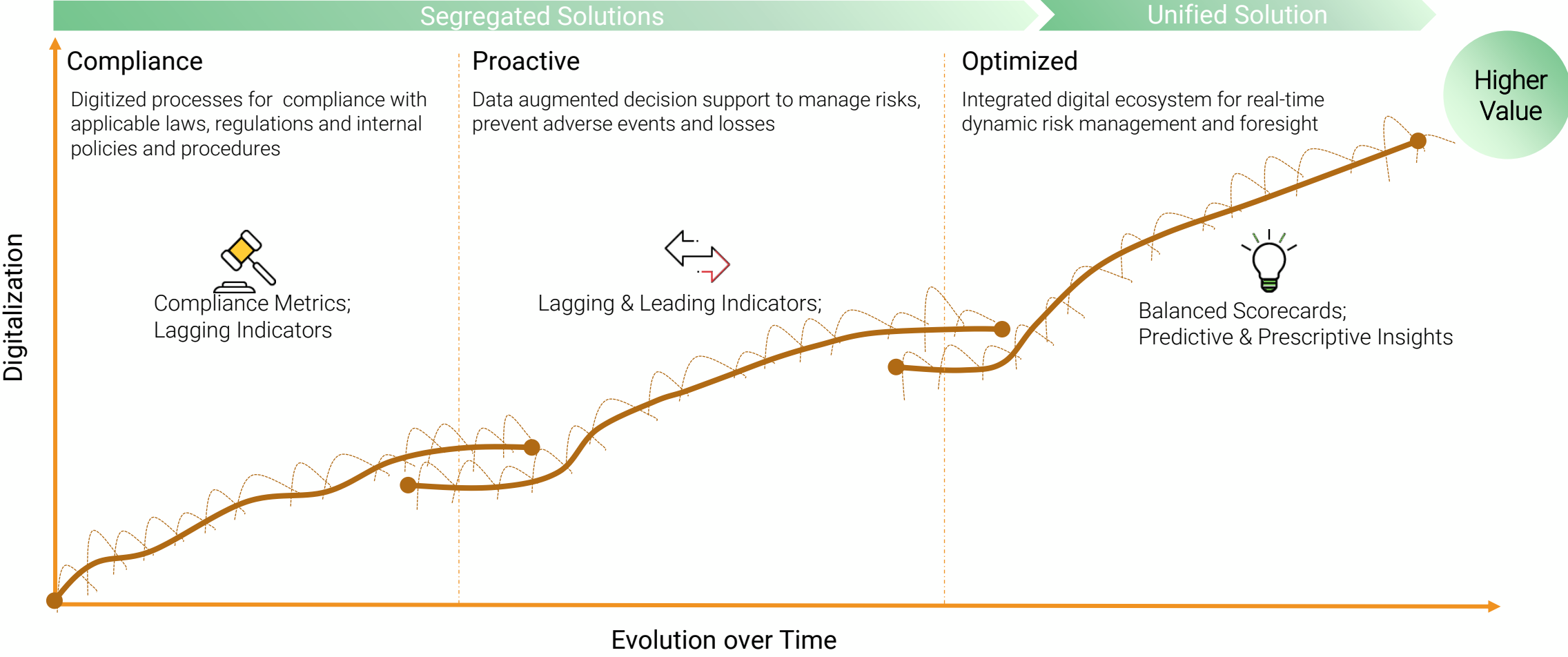


Monitoring of situations

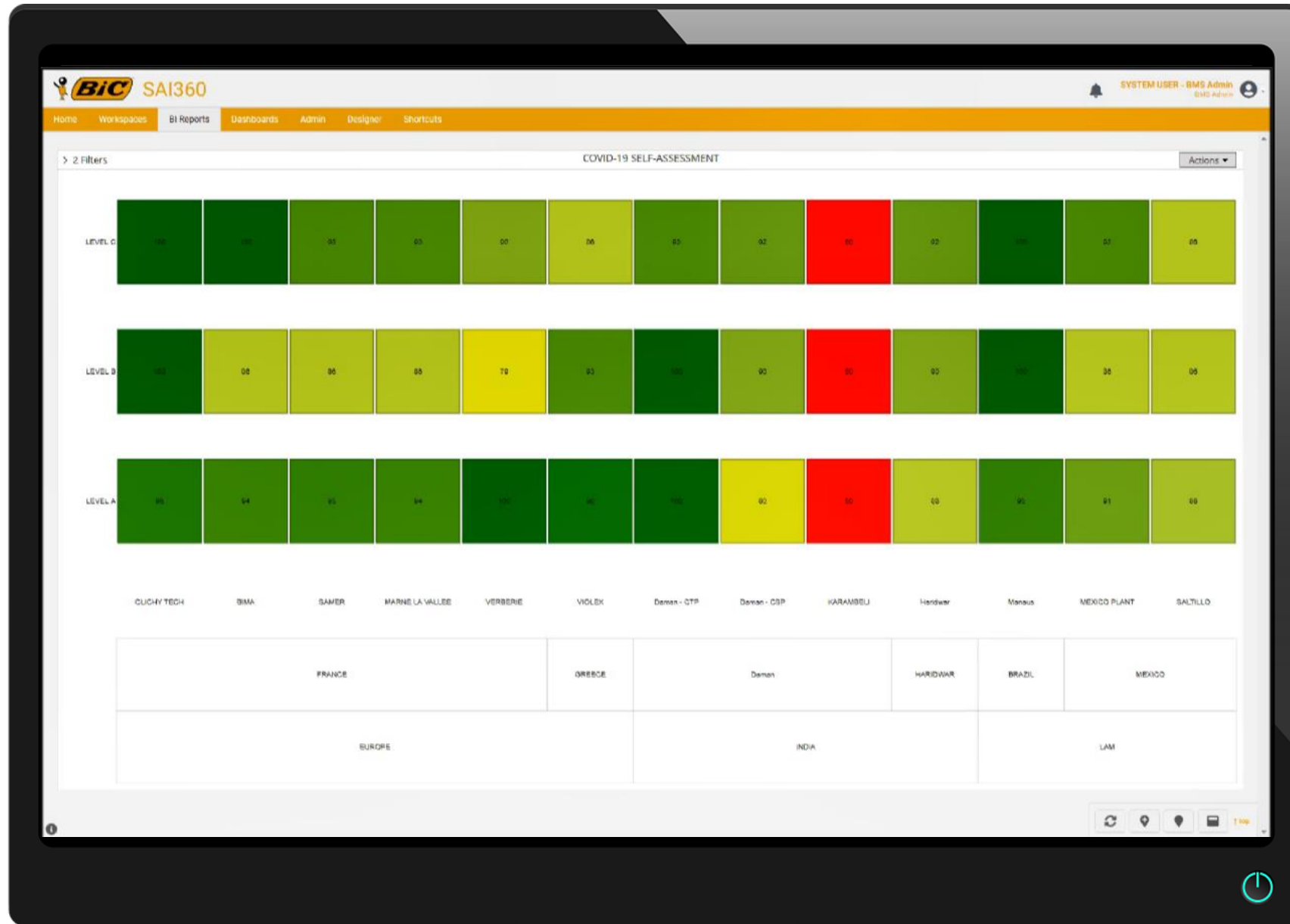


Corporate digital transformation strategy

DIGITAL TRANSFORMATION JOURNEY



COVID-19 DIGITAL MANAGEMENT



EMPLOYEE DECLARATION FOR RETURN TO WORK

BIC Team Member Health Self-declaration.

As a safety measure, BIC requires team members to complete the following prior to accessing BIC offices and BIC customer sites.

The information will be used by BIC solely to determine whether a team member evaluates him or herself as healthy enough to work from the BIC office or from a BIC customer site environment. BIC will only keep this information for a limited period of time (24 hours) to be able to monitor the daily site access. After you submit the form, the information might also be accessible by Microsoft, see their privacy policy for further details. If you are not comfortable with said Microsoft policy, you can fill out a hard copy of the form at the site entrance. If you have any questions about your privacy related to this form, please contact the BIC Group Data Protection Officer at data-protection@bicworld.com.

Hi Sebastien, when you submit this form, the owner will be able to see your name and email address.

* Required

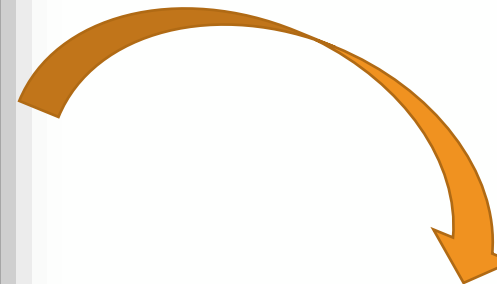
1. Select your country *

Select your answer

2. Have you been confirmed as having COVID-19 or advised by a medical professional that you likely have COVID-19? *

Yes

No



APPROVED FOR ENTRY

Sebastien.Chaigneau@bicworld.com

5/3/2021 9:45:32 AM (<-- Note GMT Time)

Tomorrow, [click here to complete BIC COVID Self-Certification.](#)

LEVERAGING A SAFETY SCORECARD

SHIFT FROM LAGGING INDICATORS TO PROACTIVE METRICS

IMPLEMENTATION OF A GLOBAL STANDARD



ROOT CAUSE ANALYSIS

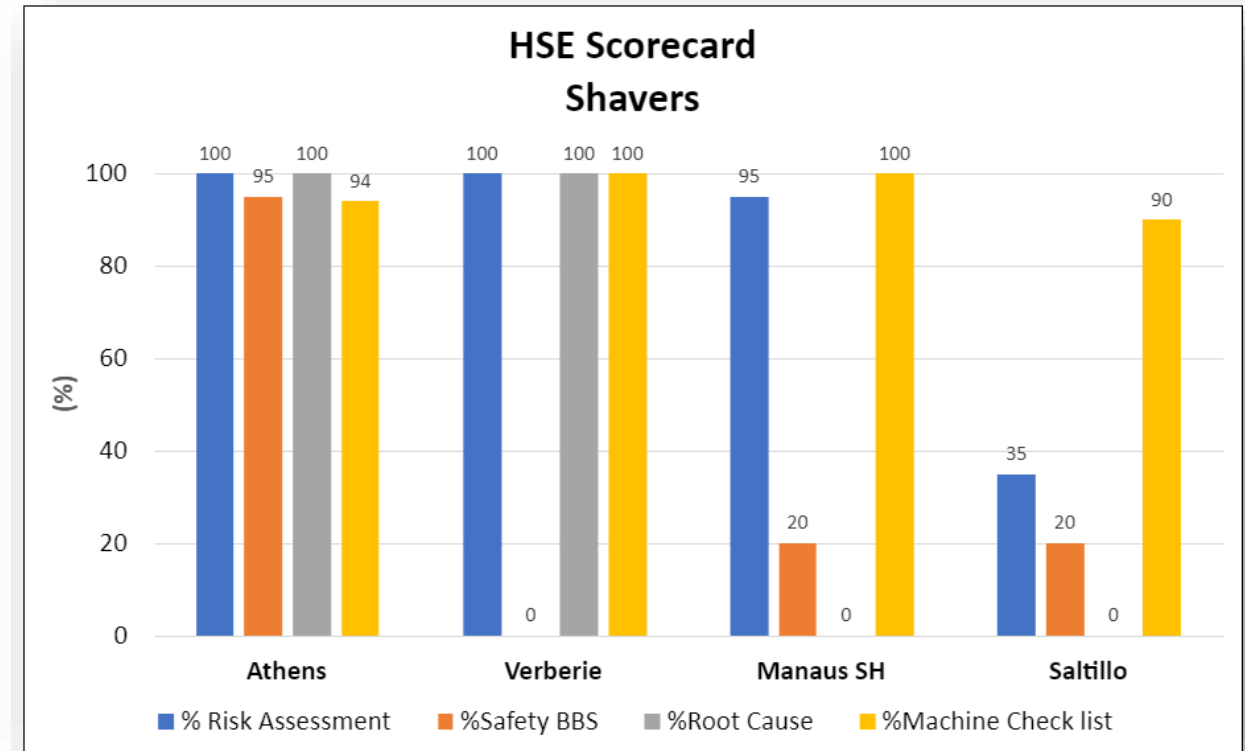
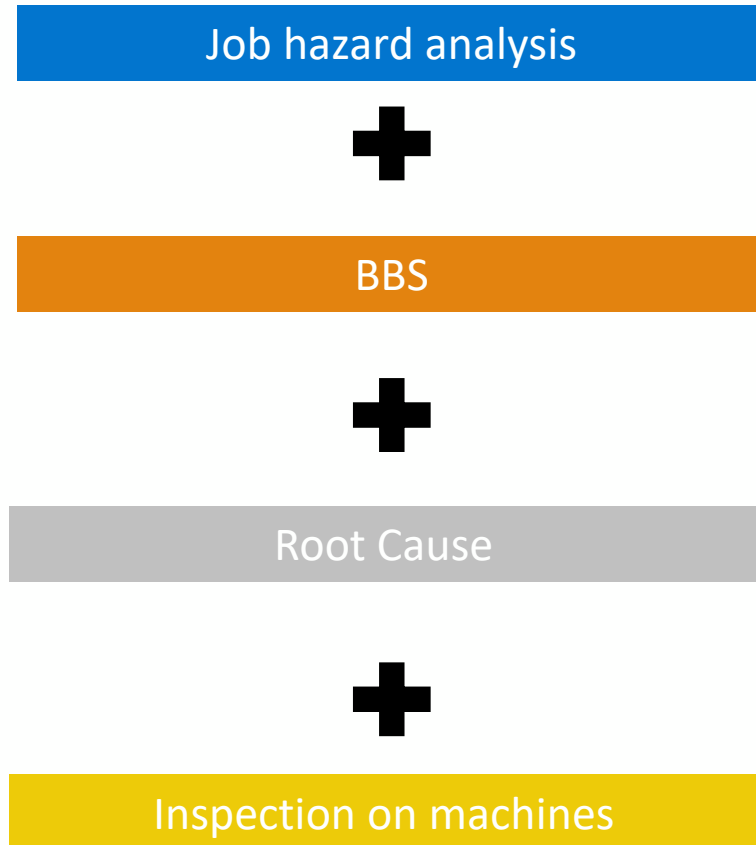
The screenshot displays a BI dashboard interface for 'SAI360'. The top navigation bar includes 'Home', 'Workspaces', 'BI Reports', 'Dashboards', 'Admin', 'Designer', and 'Shortcuts'. The user is identified as 'SYSTEM USER - BMS Admin'. The main content area is titled 'KPI Investigation' and shows a table with 2 rows and 3 columns. The table data is as follows:

Incident: Potential Severity	Incident Count	Incident Investigation Count	Investigations Outstanding
Major	6	5	1
Moderate	18	16	2

At the bottom right of the dashboard, there are several utility icons: a refresh icon, a plus icon, a location pin icon, a document icon, and a 'top' button. A power icon is visible in the bottom right corner of the overall image.

SAFETY SCORECARD

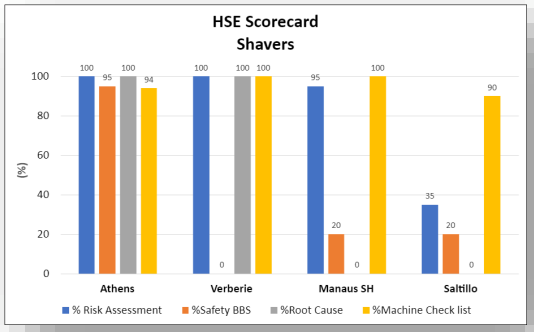
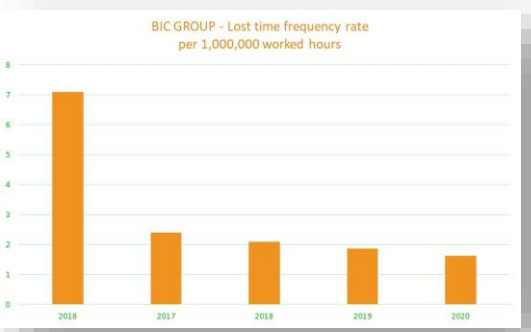
Example



FACTORY 4.0 AND HSE 4.0

**ENABLING THE CONNECTED WORKER AND BUILDING SAFER
WORKPLACES**

DIGITAL TRANSFORMATION JOURNEY



Higher Value

Vertical axis: Digitalization

Horizontal axis: Evolution over Time

Compliance Metrics; Lagging Indicators

Lagging & Leading Indicators;

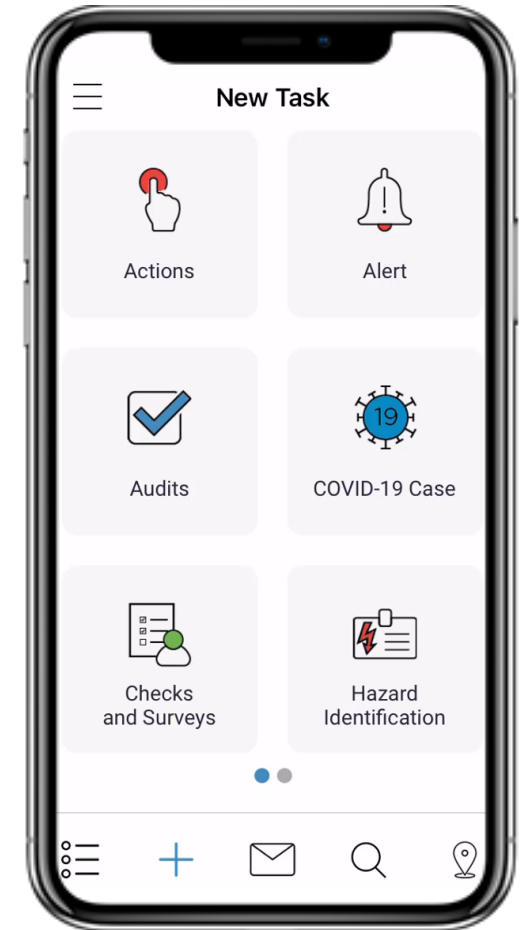
Balanced Scorecards; Predictive & Prescriptive Insights



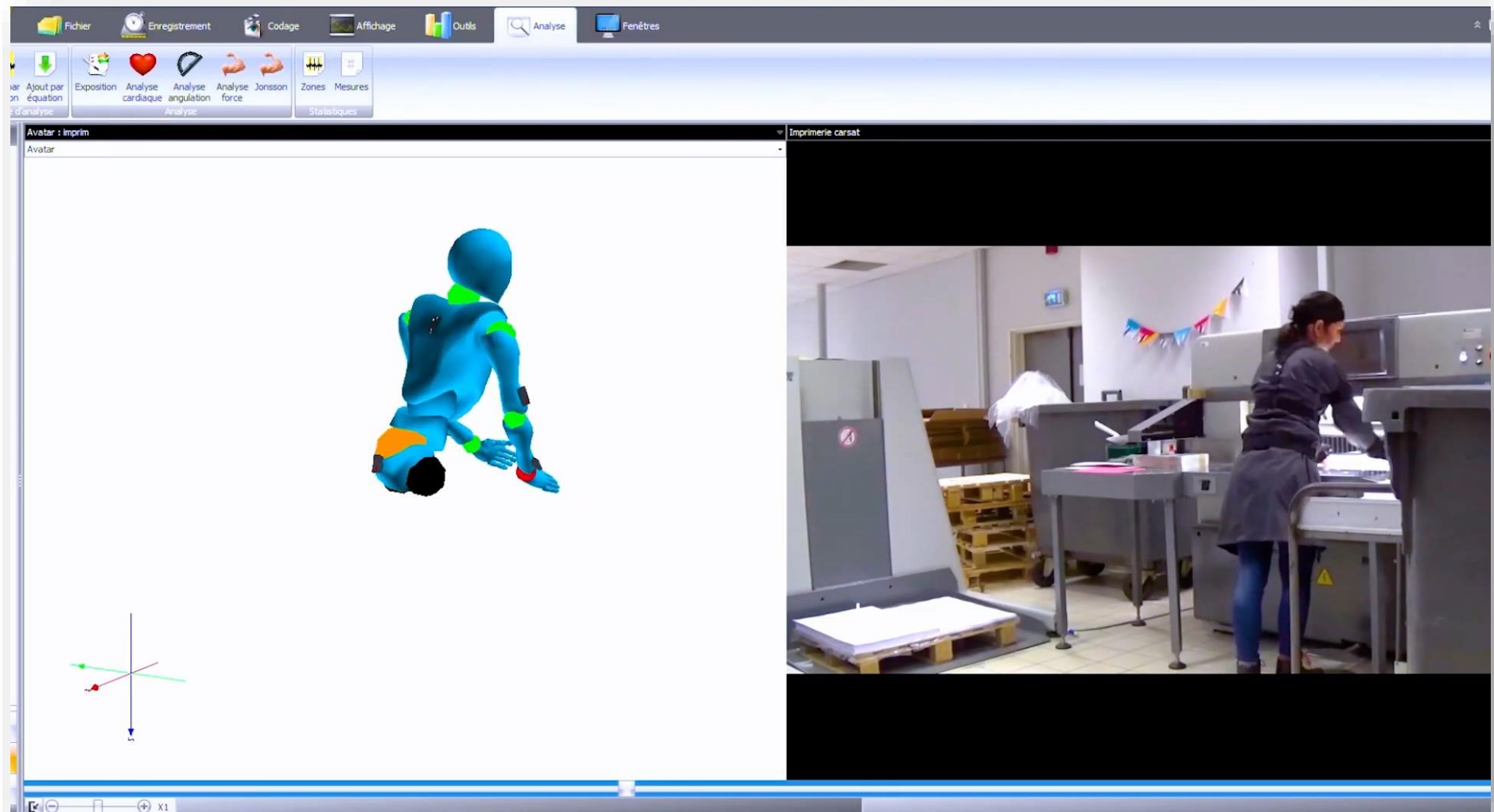
BBS OBSERVATION ON MOBILE



BBS observation in Johannesburg – South Africa



ERGONOMICS RISK ASSESSMENT USING INERTIAL SENSORS



BIOMETRY TO SUPPORT PPE DELIVERY

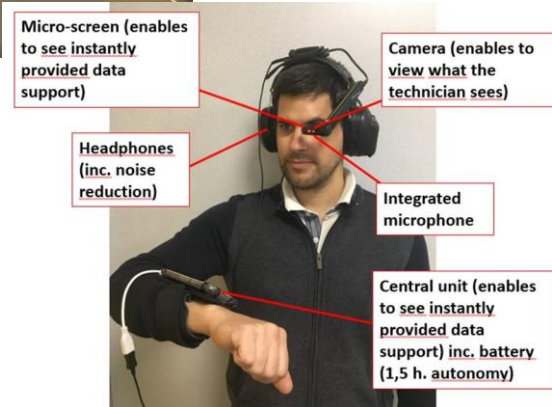
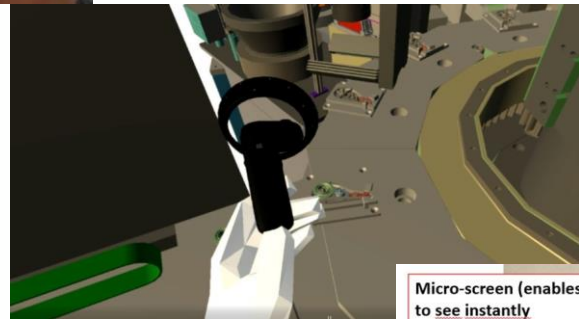


0002 BIC AMAZONIA S/A Pág. 1

Protocolo de Entrega de EPI's no Período

Descrição EPI	Epi Descartável	Data Entrega	Data Devolução	Medida	Qty Entregue	Qty Devolvida	Qty Danificada	Instr. Uso	Ass. Protocolo	Usuário
20000001-PROTETOR AURIC PLUG CA 5745 Motivo: TROCA DENTRO DO PRAZO	N	11/01/2016	00/00/0000		001	000	000	Sim	Sim - Autenticação Eletrônica	Aoliveira6
20000001-PROTETOR AURIC PLUG CA 5745 Motivo: TROCA DENTRO DO PRAZO	N	27/06/2016	00/00/0000		001	000	000	Sim	Sim - Autenticação Eletrônica	Aoliveira6
20000001-PROTETOR AURIC PLUG CA 5745 Motivo: TROCA DENTRO DO PRAZO	N	16/08/2016	00/00/0000		001	000	000	Sim	Sim - Autenticação Eletrônica	Aoliveira6
20000001-PROTETOR AURIC PLUG CA 5745 Motivo: TROCA DENTRO DO PRAZO	N	06/02/2017	00/00/0000		001	000	000	Sim	Sim - Autenticação Eletrônica	Aoliveira6
20000006-TENIS DE SEGURANÇA CA26730 Motivo: TROCA DENTRO DO PRAZO	N	04/05/2016	00/00/0000	37	001	000	000	Sim	Sim - Autenticação Eletrônica	Aoliveira6
20000006-TENIS DE SEGURANÇA CA26730 Motivo: TROCA DENTRO DO PRAZO	N	03/05/2017	00/00/0000	37	001	000	000	Sim	Sim - Autenticação Eletrônica	Aoliveira6
20000090-CADASTRO DE BIOMETRIA Motivo: NOVO 1ª VEZ	S	01/12/2015	00/00/0000		001	000	000	Sim	Sim - Autenticação Eletrônica	Aoliveira6

"BIC TECHNOLOGIE" INNOVATION AUGMENTED & VIRTUAL REALITY



Application

Description

**Layout
Planning
& Design
Review**

AR representation of machines for reviewing designs and spatial planning

**Training
(Learning at
the point of
need)**

Create AR experience for digitally delivering up-to-date enhanced instructions

**Tele-
maintenance**

Hands-free maintenance operations with remote 3D instructions



THANK YOU
