Power of Artificial Intelligence (AI): The Road to Predicting Field Accidents with > 80% Accuracy

Denis Branthonne
Co-founder & CEO of Novade

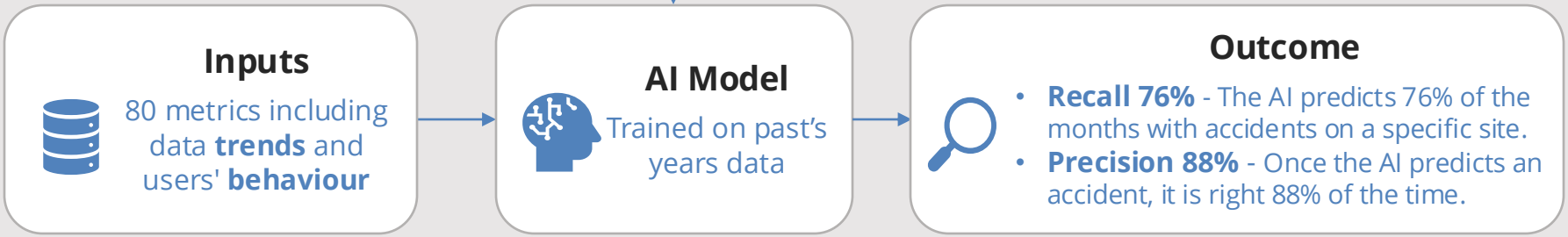
Predicting

80%

of accidents with AI

AI breakthrough: methodology to predict accidents on site

Will there be an accident on this site in the next month?



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A simple yet powerful outcome

“Having access to this kind of analysis is incredibly cost-effective. It allows us to take a more objective look at our projects...It's like having a new pair of glasses that helps us see our projects more clearly.”

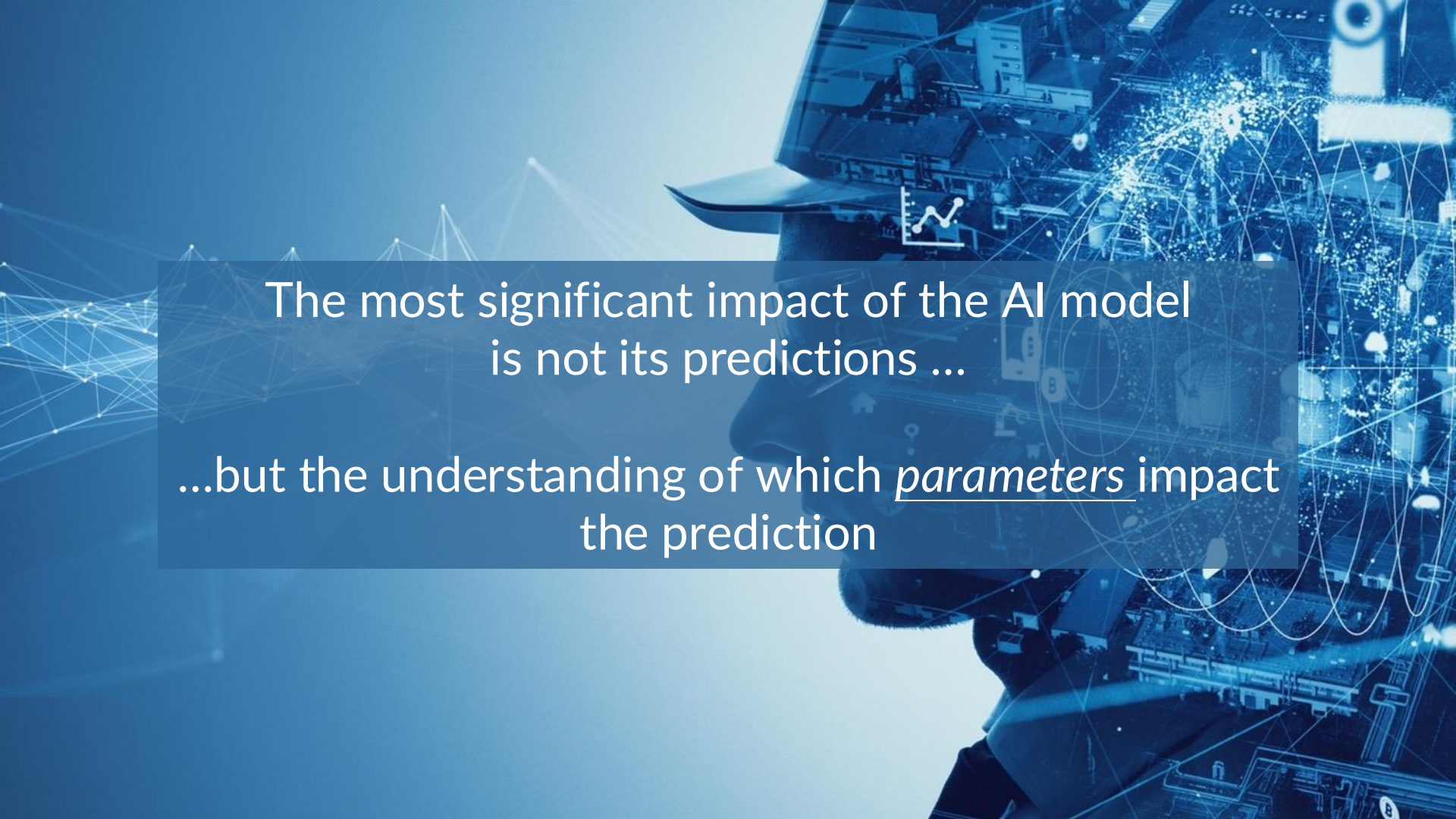
- Kevin Seet, Head of Corporate Division, Tiong Seng Contractors

These AI predictions are in line with empirical evidences: very often, before an accident, *the writing was on the wall*

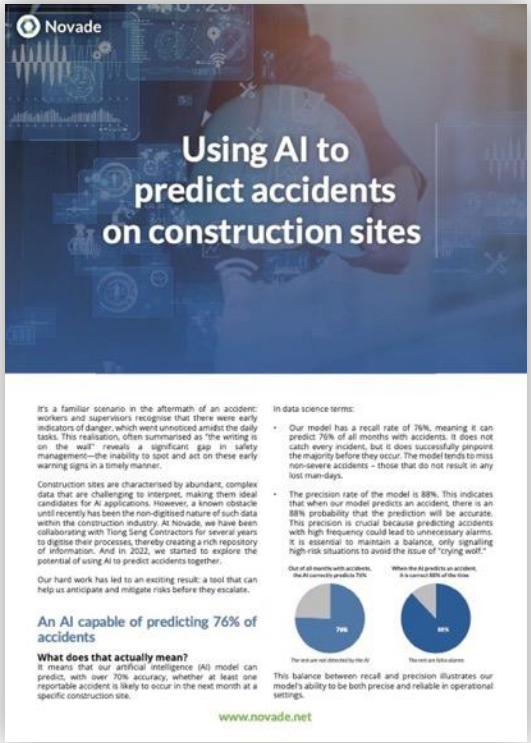
AI's ability to analyse huge amount data is very relevant for field safety

Human beings struggle to compute a huge amount of data

AI thrives in an environment with lots of data and clear outcomes


The most significant impact of the AI model is not its predictions …
…but the understanding of which *parameters* impact the prediction

Download our article if you wish to learn more



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Call to action

You can leverage digital tools now to improve safety in the field

Collect
Capture real-time data from the field

Analyse
Monitor trends and Identify patterns

Act
Make decisions and continuously improve

And within one or two years, if you collect enough relevant and accurate data, you will be able to leverage AI

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Leverage mobile devices & IOT to manage compliance and improve safety in the field

Video analytics
Send alerts when unsafe conditions are detected

Location tracking
Capture real time location of workers on site

IOT Sensors
Capture critical information on assets and environment

Field Compliance
- Induction
- Toolbox meetings
- Permits to Work

Field safety processes
- Observations & inspections
- Incidents & Near-Miss

Analytics & AI
Visualise in real time key indicators & leverage AI predictions

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About Novade

Novade is a global organisation operating across Europe and Asia

20
Countries

10 000
Sites

150K
Users

1 Million
Processes every month

With Novade manage field operations with one single mobile app

Digitise field processes

Quality assurance

- Quality Inspections
- RFIs, ITPs
- Punch Lists, Defect Rectification
- Handover, Commissioning

HSE compliance

- Toolbox meetings
- Permits to Work, Safety Forms
- Observations, Issues, NCRs
- Safety Incidents & Near-Miss

Progress & resource tracking

- Daily reports: Activity, Workforce, Equipment, Supplies.
- Progress reports and production ratio
- Waste tracking & Carbon footprint

Manage data & resources

Project Location

- Project Spatial hierarchy (WBS, Units)
- 2D Drawings & 3D models

People

- Workers profiles
- Site check in / check out
- Workers' qualifications

Assets

- Equipment, machinery, supplies
- Location tracking
- Equipment certification

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Owners & developers

GuocoLand
CapitaLand
City Developments Limited
Frasers Property
Banyan Tree
Shangri-La Hotels and Resorts
Hongkong Land
lendlease

Public Sector

jtc
BCA
PUB
Housing & Development Board
People's Association
Land Transport Authority – We Keep Your World Moving

General Contractors

Woh Hup – Building with Integrity
KTC Group
TiongSeng Group 长成控股
HSB – Hwa Seng Builder Pte Ltd
CHEC
SoilBuild Construction Group Ltd
Expand Group of Companies
中國建築 China State Construction
Obayashi
Bouygues Construction
Samsung C&T
Colas Rail
鹿島 Kajima Corporation
Vinci Construction
Hyundai Engineering & Construction
McConnell Dowell

Specialist Contractors

Schneider Electric
Mitsubishi Electric
Daikin
Fujitec
Arkema
Alstom
Cushman & Wakefield
Aegis

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Novade is used on iconic projects across the world

Tunnel – Lyon Turin
Vinci / Spie Batignolles

Highway - Norway
Eiffage

High end resorts – Thailand
Banyan tree

Condominium – Malaysia
Lendlease

Metro Stations - Singapore
China Construction

Shipyard – Singapore
Pax Ocean

Rail (HS2) - United Kingdom
EKFB

Gas field – Saudi Arabia
Aramco & Hyundai

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✓ Updated 03/06/24

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Management and R&D teams based in Singapore.

Technology you can trust

Singapore data center, ISO certification and strict compliance with PDPA.

Enterprise Singapore Support

Capital investment in 2018 and selected for the Singapore Scale-Up Program in 2021.

IMDA accreditation

Strict audit process enabling Novade to supply Singapore public agencies such as PUB, DSTA, PA, and BCA.

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Novade

Digital transformation
from the ground up

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