



Enhance the experience for commercial property risk engineers

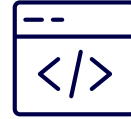
Cognizant POV

Executive summary



Problem statement

- Risk Engineering for Commercial Property Insurance involves manual curators who assess and quantify site-specific exposures
- The process includes manually reviewing various sources to verify customer addresses, business presence, and identifying physical attributes of a commercial property



Solution developed

- Solution developed is a Gen AI solution for Risk Assessment for Commercial Property automates the curation process leveraging OpenAI to
 - Extract address-related attributes
 - Verify customer presence
 - Identify pedestrian entrances
 - Determine the floor count of buildings based on visual clues
- Designed as a plug-and-play API model, allowing for easy integration into existing systems & enabling scalable and efficient risk assessment processes



Technology used

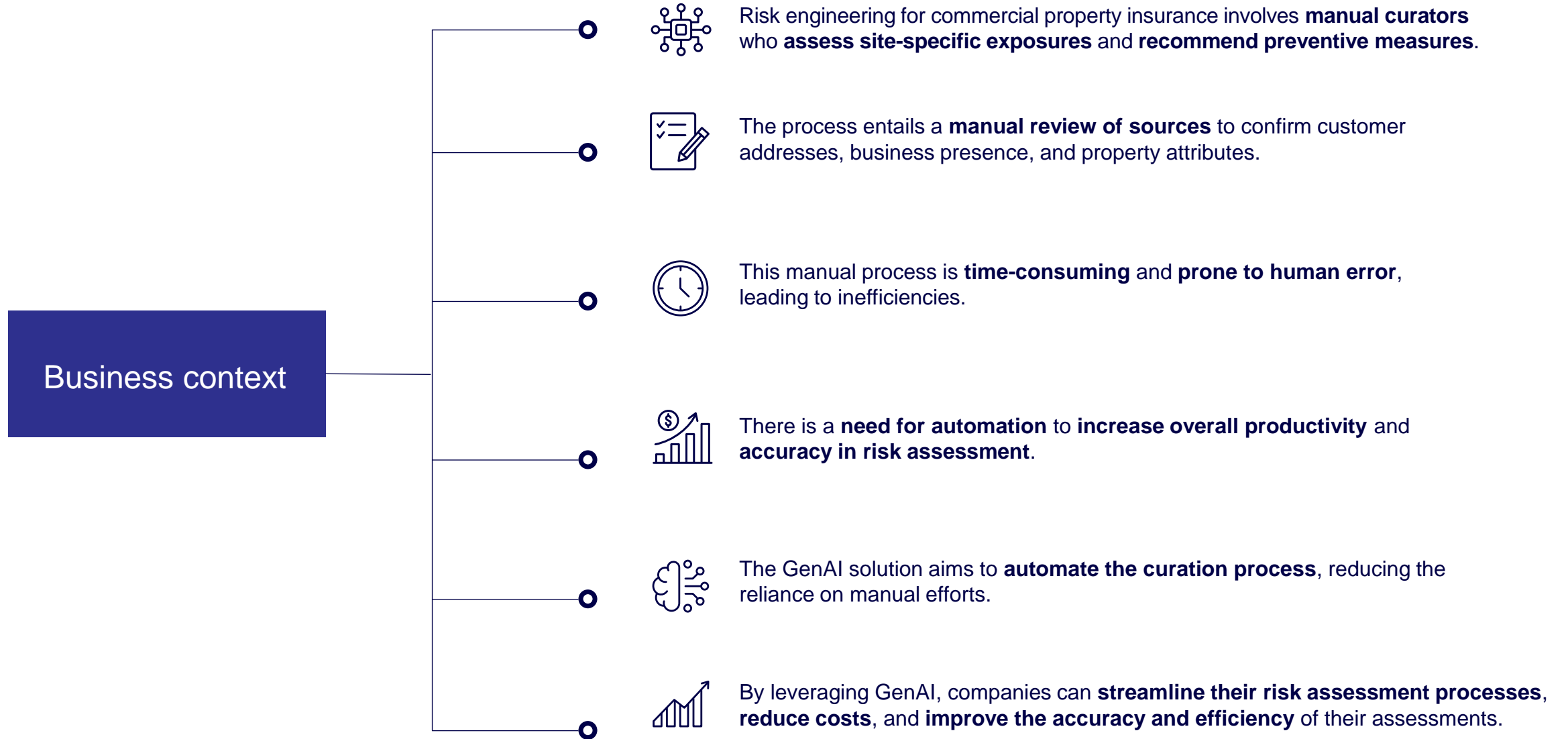
- **OpenAI:** Used for extracting address-related attributes, verifying customer presence, identifying pedestrian entrances, and determining the floor count of buildings based on visual clues.
- **Plug-and-Play API Model:** Easy integration into existing systems, enabling scalable & efficient risk assessment processes.



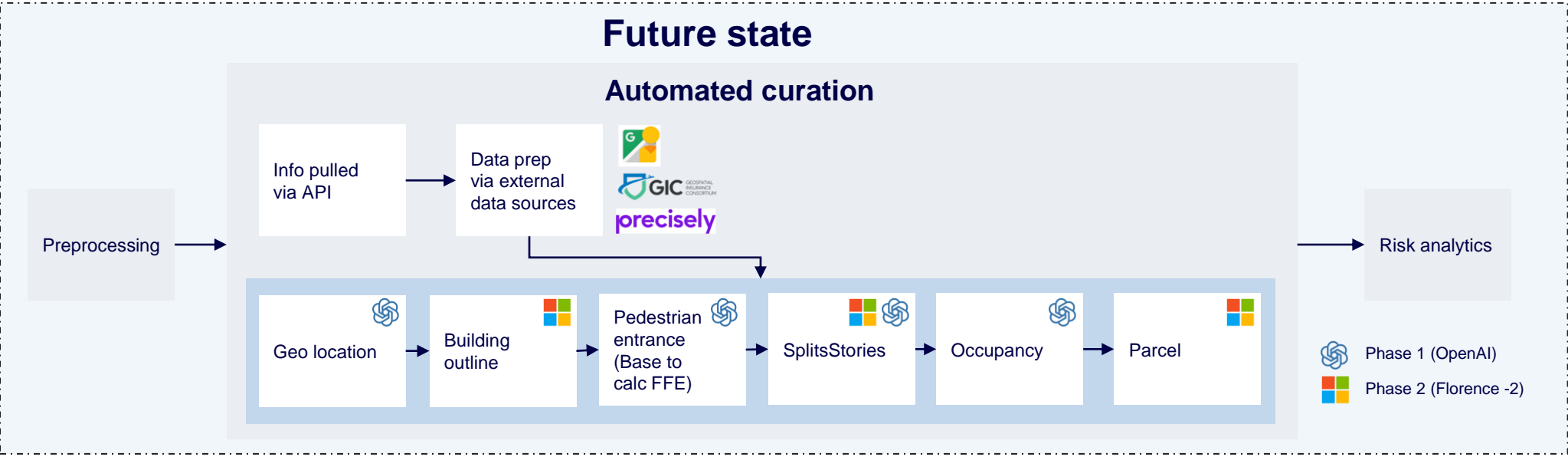
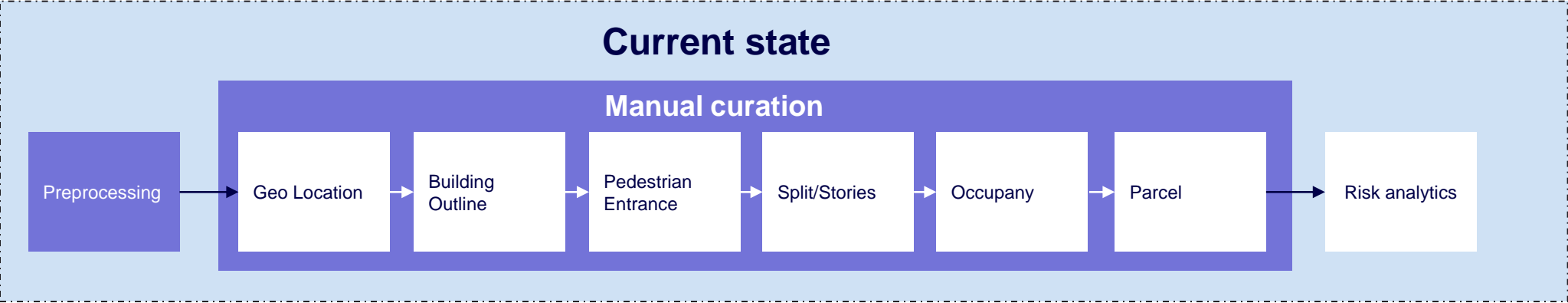
Business benefits

- **Automation of Manual Processes** by GenAI solution increase the overall productivity.
- **Enhanced Accuracy & Efficiency** by extracting address-related attributes, verifying customer presence, identifying pedestrian entrances & determining the floor count of buildings which reduces human error & speeds up the risk assessment process.
- **Enabling scalable and efficient risk assessment processes** by plug-and-play API model for easy integration into existing systems,
- **Data-Driven Insights** from vast amounts of data makes more informed decisions & improves risk management strategies.

Problem statement | Business context



Current state & future state



Cognizant Prototype - Building Image Assessment – GenAI Vision Assist

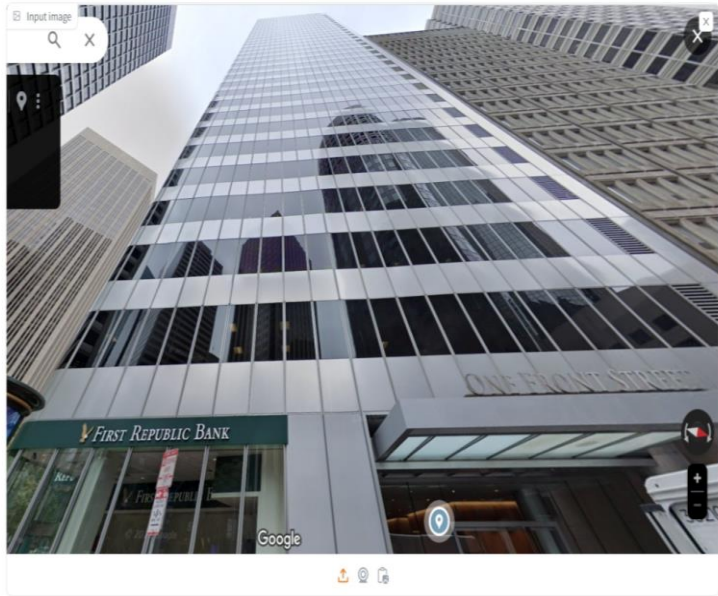


Image of the building given an Input to the Model

 **Gen AI Vision Assist**

Output from the Gen AI Vision Assist Model for the Image Analyzed

Geo Location Analysis (Address)

Verifies the property address to confirm that the address is valid

Geo Location Analysis (Customer Presence)


Verifies that customer exists at the address

Pedestrian Entrance

Identifies all Pedestrian Entrance

Building Floors

Identifies the floor count of building



**Let us walk
you through
an example**

What happened?



Context/background

Leading Commercial Property Insurance Company was incurring heavy expenses from underwriting properties due to manual data gathering, which is time-consuming and prone to human error.



Key takeaways

- The company had multiple clients who had **offices across multiple countries in North America**. Traditional site visit is a tedious and inefficient process where **high cost* is incurred** and **prone to human error** while investigation.
- The company aimed to **evaluate, analyze, and measure site-specific exposures** and **investigate risk mitigation strategies for the properties without conducting traditional site visits**.

*Overall expenses is expected to be around \$ 200,000 for 10-member team

- Travel cost - \$ 50,000
- Investigation charges - \$ 100,000
- Daily expenses - \$ 5,000
- Executive fees - \$ 10,000

What was the next Plan of Action?



David is assigned as the POC to develop a building image assistant solution using GenAI to assess risks

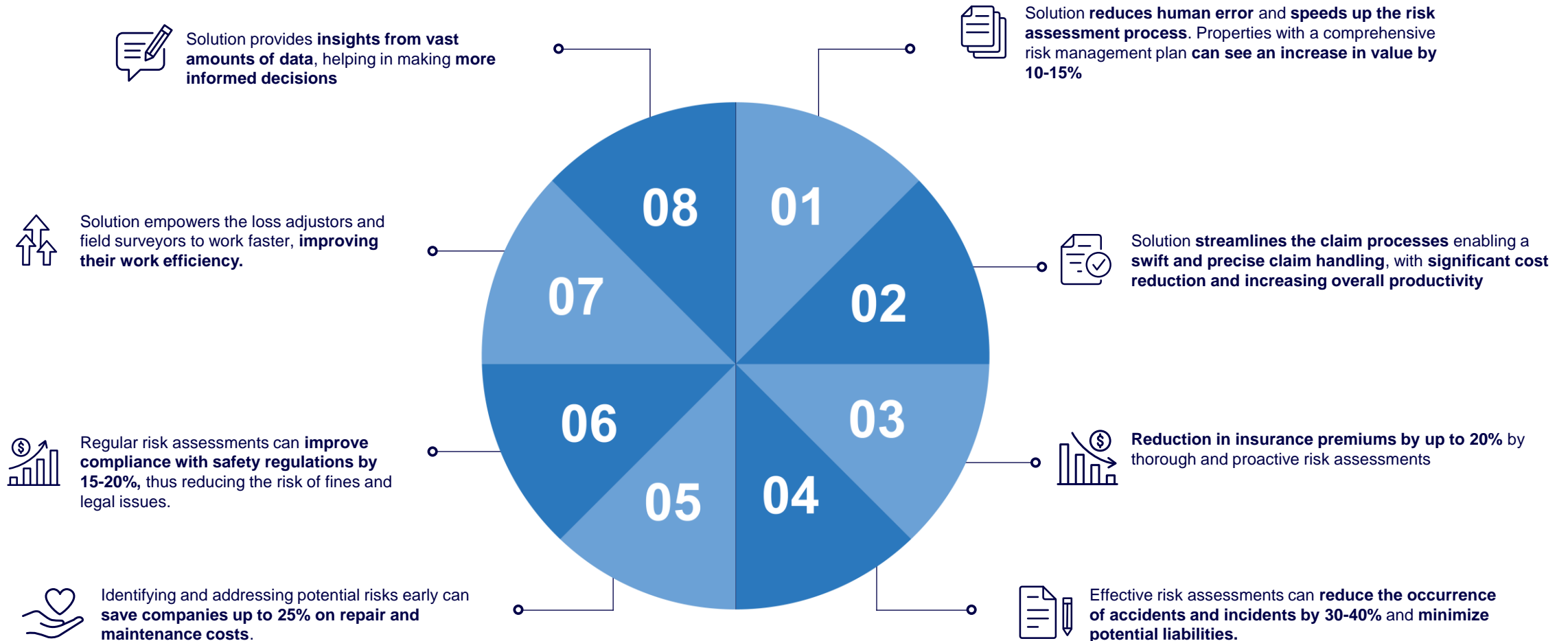
- He has 10 years of experience in Image Analytics
- He has developed several Gen AI Image Analytics Models for multiple projects within the company
- He relies on data for decisions and tries to avoid being subjective

David launches **Building Image Assistant** for:

- **Address verification**
- **Get the floor count**
- **To check if the pedestrian entrance is in line with city council regulations**

He knows the Building Image Assistant would have answers for anything that he asks

X Factor – Business Value





Thank you