

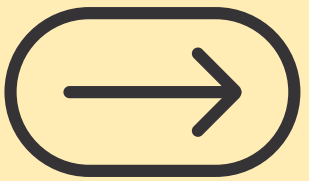
Safety Performance:

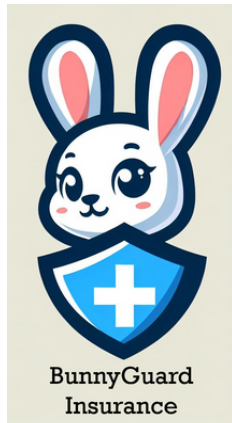
Predicting Safety at Work



Monthly meeting 08/03/2024

Next Slide





Main challenge

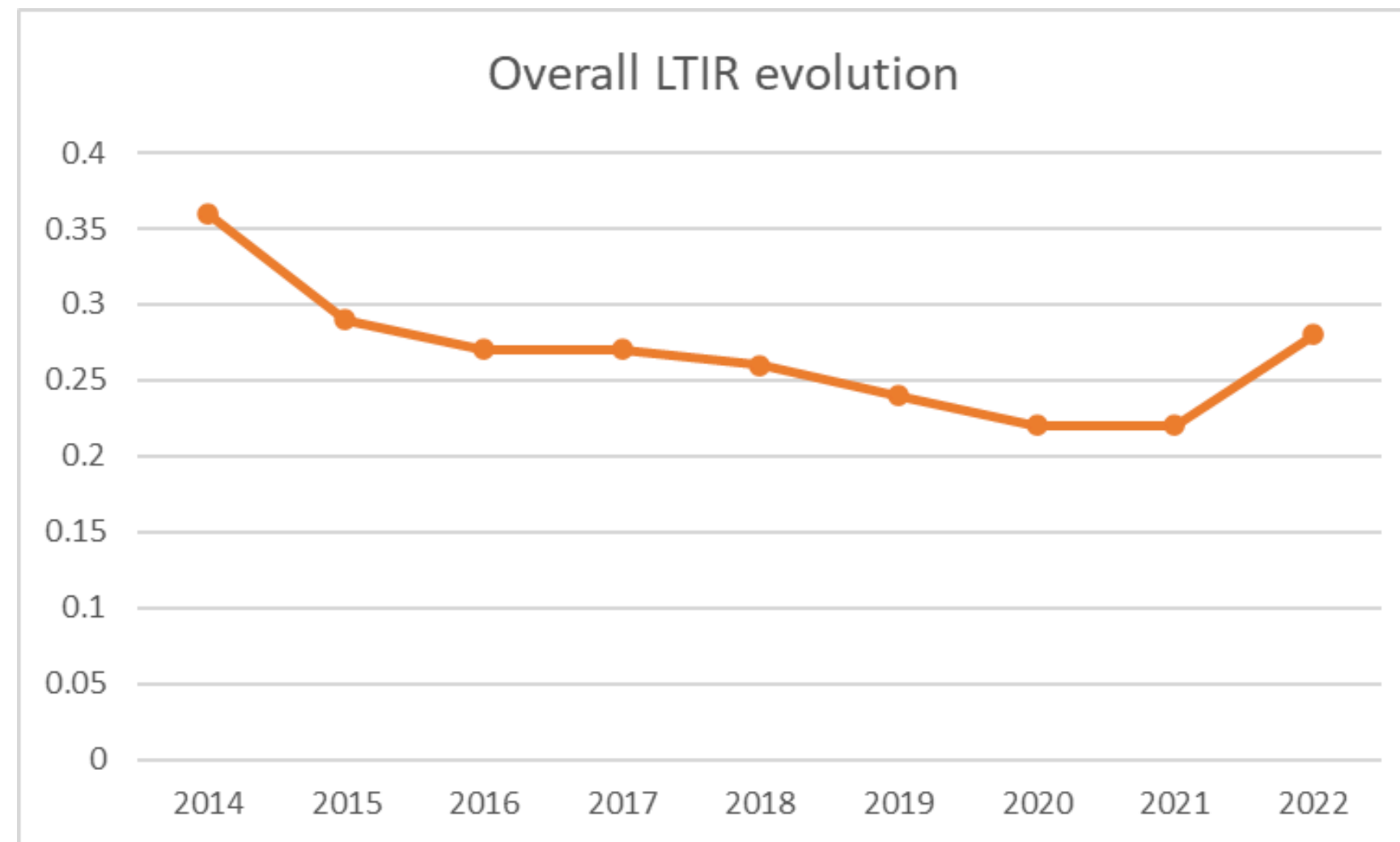
Increase of spending on workplace incidents

Hospital bills

Sick leaves

Lawyer fees

+ indirect costs (reputation, productivity etc)



Overview



What is Loss Time Injury Rate?

$$LTIR = \left(\frac{\text{Number of Lost Time Injuries} \times 1,000,000}{\text{Total Hours Worked}} \right)$$



LTIR :

Gives the number of injuries that resulted in lost work time.

Focuses on incidents where employees miss work due to workplace injuries.

Helps assess the frequency of serious injuries requiring time off.

Is common to all the companies



Project presentation



Target

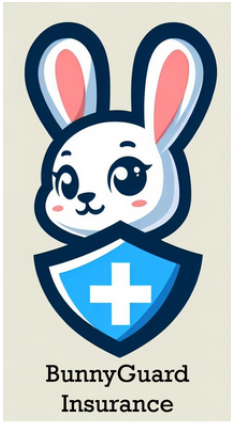
- BunnyGuard: For risk assessment and policy pricing.
- Companies: To set realistic yearly safety objectives.

Goal

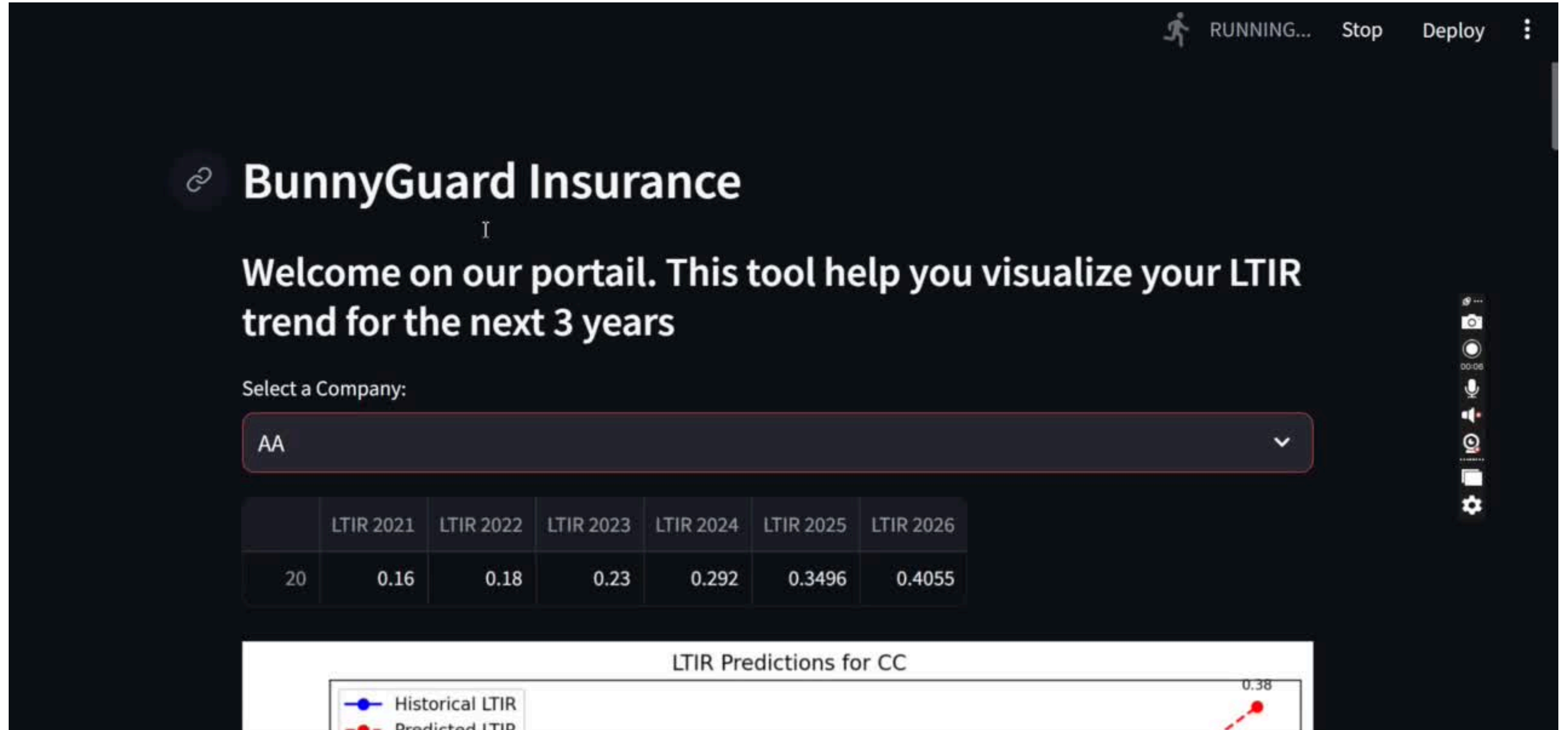
- Compare actual performance with predictions
- Offer guidance on monitoring LTIR.

Training data

- Clients member of IOGP (anonymous data)
- LTIR from 2014 to 2023



Results



Way forward



Limitations

Model assumptions

Data Quality and limited features

Limited KPI Coverage

Yearly data only

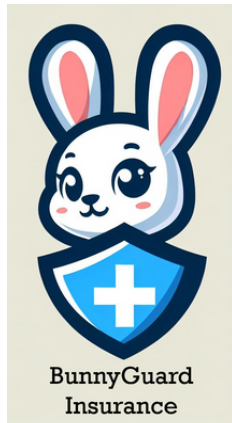
Improvements

Use more advanced prediction model

Get more granularity: type of activities and sector

Use other KPIs: FAR and TRIR

Allow users to enter data for monthly monitoring



Summary

- Helps companies track, predict, and improve their Lost Time Incident Rate (LTIR) using machine learning.
- Interactive data visualization, company-specific LTIR forecasts, and expandable safety tips to encourage workplace safety improvements.
- Aims to assist businesses and insurers in reducing risks and optimizing safety strategies.





Thank You

For more details
contact our expert:



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