

# People Analytics at *InnovateTech*



*Tristan How, Jiawen "Sadie" Li, Richa Shah, Tiange "Olivia" Zhang*

# AGENDA

## **I. INTRODUCTION**

Meet our team + context of presentation.

## **II. SETTING UP THE FUNCTION**

A roadmap for establishing the People Analytics team.

## **III. TEAM DEVELOPMENT & MANAGEMENT**

Building the People Analytics team + roles and responsibilities.

## **IV. STAKEHOLDER ENGAGEMENT**

Effective internal consulting — strong and strategic relationships.

## **V. INCORPORATING AI**

Integrating AI into the People Analytics team's work.

## **VI. CONCLUSION**

Wrap-up + Q&A



# INTRODUCTION

# OUR TEAM



***Tristan How***



***Jiawen "Sadie" Li***



***Richa Shah***



***Tiange "Olivia" Zhang***



# SETTING UP THE FUNCTION

# STEP 1: DEFINE THE CORE MISSION & OBJECTIVES

## **Mission Statement:**

*"To provide data-driven insights that empower InnovateTech's leadership to make decisions that optimize employee experience, drive retention, and power scalable workforce growth."*

## **Key Objectives:**

- ★ Support workforce development and talent acquisition
- ★ Enable hybrid work optimization
- ★ Enhance employee engagement and experience
- ★ Strategic alignment between IT, Tax, Executive Managers, Finance and HR departments

# STEP 2: IDENTIFY FIVE PRIORITY BUSINESS ISSUES

1. Data silos and poor data quality
2. High employee turnover with no predictive models
3. Lack of visibility in remote/hybrid work productivity
4. Unclear performance and promotion criteria
5. Lack of executive buy-in for people analytics

## STEP 3A: COLLECT THE DATA

### **System/Source:**

- ★ Hiring (ATS → HRIS)
- ★ Employee Lifecycle (HRIS → Performance System)
- ★ Engagement Monitoring (Surveys ↔ HRIS/Performance)



# STEP 3B: DATA COLLECTION PROCESS

System	Data Retrieved
Human Resources Information System (HRIS)	<ul style="list-style-type: none"><li>• Employee demographics</li><li>• Tenure</li><li>• Promotions</li><li>• Attendance</li><li>• Payroll, i.e., compensation, benefits</li></ul>
Applicant Tracking System (ATS)	<ul style="list-style-type: none"><li>• Recruitment data<ul style="list-style-type: none"><li>○ Candidate source</li><li>○ New hire turnover rate</li></ul></li><li>• Internal mobility</li></ul>
Performance Management System	<ul style="list-style-type: none"><li>• Performance evaluations and ratings, along with manager feedback</li><li>• Promotion history and eligibility</li><li>• Employee productivity</li></ul>
Employee Engagement Surveys	<ul style="list-style-type: none"><li>• Engagement scores (KPIs)</li><li>• Job satisfaction scores (KPIs)</li><li>• Exit trends</li></ul>



# STEP 4: DATA MANAGEMENT STRATEGY



# STEP 5: DATA DICTIONARY, SECURITY & PRIVACY

## Data Dictionary: Ensure Consistency & Clarity

- ★ Establish a **centralized repository** for key HR data definitions
- ★ Standardize terms like:
  - **Retention:** Duration from hire to exit
  - **Engagement Score:** Composite score from survey metrics
  - **Turnover Rate:** % of employees leaving within a given time
- ★ Improves accuracy in **reporting, analysis, and cross-team collaboration**

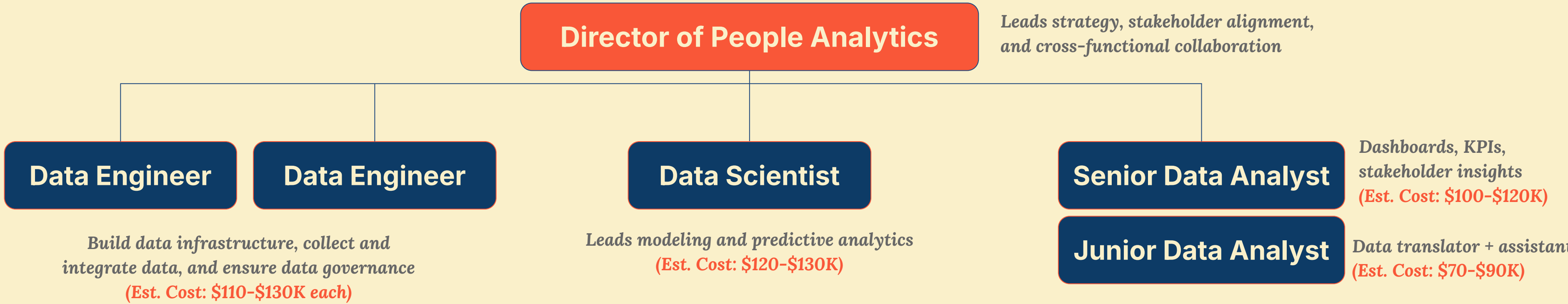
## Data Security & Privacy Strategy

- ★ **Phase 1: Immediate Measures (Pre-IT Support)**
  - **Restrict access** to authorized users only
  - Enforce existing cybersecurity protocols
  - Define **role-based access controls** (e.g., HR, Analytics, Executives)
- ★ **Phase 2: Post-IT Enablement**
  - Implement **encryption** for sensitive employee data
  - Set up **multi-factor authentication (MFA)**
  - Establish ongoing **access audits** and monitoring



# **TEAM DEVELOPMENT & MANAGEMENT**

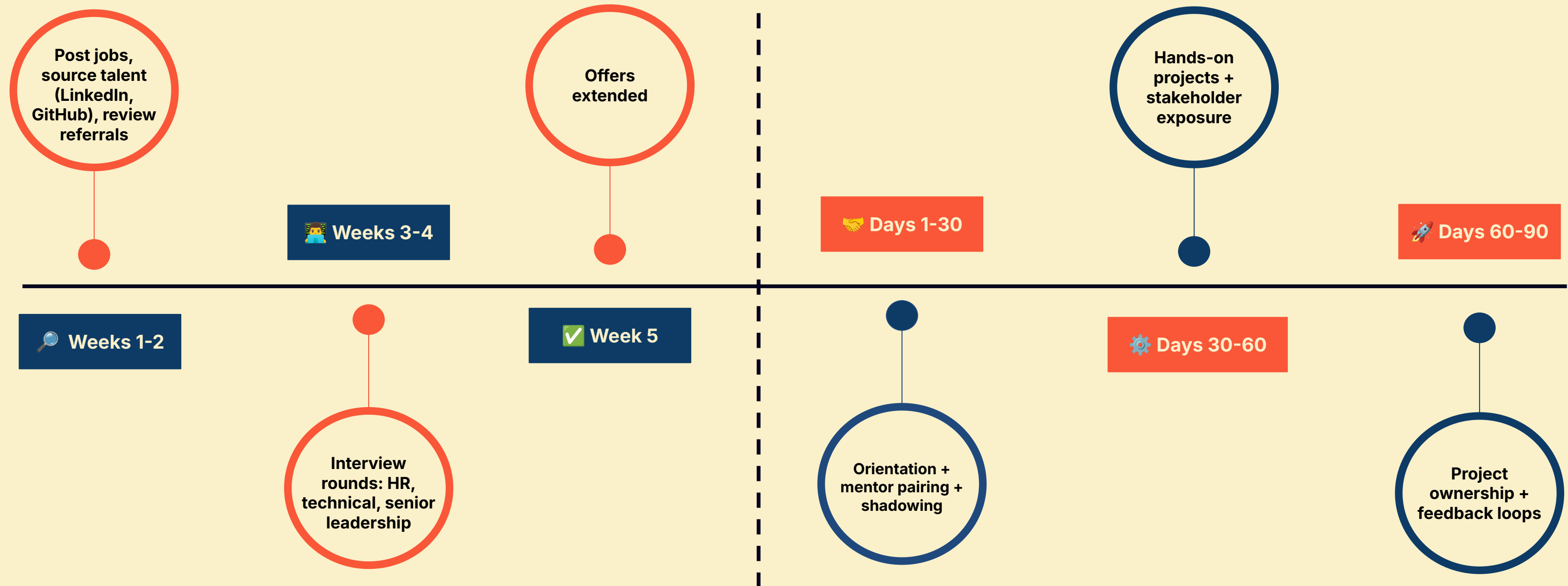
# TEAM STRUCTURE: BUILDING A HIGH-IMPACT PEOPLE ANALYTICS FUNCTION



**Why This Matters:**

- ★ This structure aligns with InnovateTech’s immediate needs: talent retention, engagement insights, hybrid model optimization
- ★ The team collaborates seamlessly: *Data Engineers* manage infrastructure, while *Data Scientist and Data Analysts* focus on insight generation and actionability.

# HIRING & ONBOARDING PLAN



## Best Practices:

- ★ Expedited hiring via pre-vetted referrals and streamlined interviews
- ★ Onboarding focus: culture, tools (BI, dashboards, data warehouse), and inter-team collaboration
- ★ Early-wins strategy: **Data Engineers** begin data consolidation; **Data Scientist** begins pilot models on retention and productivity; **Data Analysts** shadow stakeholder meetings



# STAKEHOLDER ENGAGEMENT

# KEY STAKEHOLDERS

## *C-Suite*

- ★ CEO, CFO, CHRO, CDO/CTO\*
- ★ COO
- ★ Gen Counsel
- ★ CMO
- ★ EVP Comms

## *Managers*

- ★ Valuable Intermediaries
- ★ Key for Implementation Strategy
- ★ Training Necessary

## *Employees*

- ★ Directly Impacted
- ★ Transparency
- ★ Feedback



# EXECUTIVE ALIGNMENT + INTERNAL BUY-IN

## *Executive Storyline*

- ★ Tailored Messaging
- ★ External Consultant Expertise
- ★ Support with Data

## *Manager Buy-in*

- ★ Clear Identity
- ★ Training modules
- ★ FAQ Forum

## *Employee Buy-in*

- ★ Clear Identity
- ★ Transparency
- ★ Anticipate Objections

# COMMUNICATION STRATEGY: NEXT STEPS

## *Internal Communication*

- ★ C-Suite
  - CEO, CHRO, CFO, CTO/CDO\*
- ★ Managers
  - Forum
  - Feedback
- ★ Employees
  - Newsletter
  - Managers

## *External Communication*

- ★ Channels
- ★ Key Themes
- ★ Maintain Reputation

## *Next Steps*

- ★ Monitor:
  - KPIs
  - Cost
- ★ Post Implementation review

A large, irregular, orange-red shape, resembling a splash or a stylized drop, is centered on a dark blue background. The shape has a soft, organic feel with slightly uneven edges. Overlaid on this shape is the text "AI" in a large, white, serif font, positioned in the upper-middle part of the shape. Below "AI", the word "INTEGRATION" is written in a smaller, white, serif font, spanning across the width of the shape and extending slightly beyond its left and right edges.

# AI INTEGRATION

# STRATEGIC AI INTEGRATION

## *Predictive Attrition*

- ★ Detect early warning signs of disengagement or dissatisfaction working with the PA Data Engineers + Data Analysts

## *Workforce Planning*

- ★ Predict future talent needs by department, location, or skill type

## *Intelligent Talent Matching*

- ★ Analyzing employee internal data with job requirement to suggest role fits within the organization

## *Generative AI for Survey Analysis*

- ★ Analyze employee survey responses
- ★ Summarize key findings
- ★ Detect trends across departments

## *AI-Powered Learning*

- ★ Assess employee skill gaps
- ★ Recommend personalized training paths

## *Generating Reporting*

- ★ Explain key trends in attrition, DEI progress, engagement
- ★ Analyze workforce insights

# RISK ASSESSMENT & MITIGATION PLAN

## *Privacy and Data Security*

- ★ Enforce strict access controls
- ★ Conduct regular audits to ensure compliance with privacy laws

## *Bias and Fairness*

- ★ Implement bias audits to correct discriminatory processes
- ★ Involve human oversight
- ★ Train AI models

## *Transparency and Trust*

- ★ Use easily explainable and accessible AI models

## *Job Displacement and Resistance to Change*

- ★ Provide training
- ★ Work with Senior Leadership to communicate the role that AI will play in the organization

## *Data Quality and Integration*

- ★ Collaborate with IT and Data teams
- ★ Issue data quality control

## *Lack of AI Fluency*

- ★ Provide AI literacy programs and data training for employees
- ★ Collaborate with IT departments



CONCLUSION

# CONCLUSION

By *setting up the People Analytics function, developing and managing our team, engaging our stakeholders*, and *implementing an AI strategy*, this is how our People Analytics team will bring value to InnovateTech:

- Empower strategic, data-informed decision-making
- Enhance the employee experience and reduce attrition
- Strengthen cross-functional collaboration and increase the influence of the workforce
- Lead AI transformation initiatives and drive operational efficiency
- Anticipate an estimated ROI of 123%





**THANK YOU!**

***ANY QUESTIONS?***

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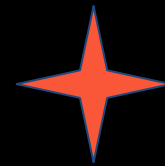
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# APPENDIX

# STEP 4: DATA MANAGEMENT STRATEGY

## Assess Existing Data Quality



## Identify & Prioritize Data



**!! High Priority:** Tenure, performance, engagement scores, compensation, exit interviews  
**Medium Priority:** ATS insights (candidate source, internal mobility)  
**Low Priority:** Attendance, perks, general workforce data

## DATA

*Automate extraction and align data formats:*

- ★ Pull data from HRIS, ATS, performance systems, and surveys
- ★ Map related fields across systems (e.g., employee ID, job level)
- ★ Standardize units, formats, and time frames for clean integration

## Collect & Standardize Data



## Centralize, Clean & Visualize Data



- ★ Consolidate data in a **central data warehouse**.
- ★ Clean, structure, and manage the data for consistent use.
- ★ Deploy a **BI dashboard** for real-time metrics on retention, performance, and engagement.
- ★ Provide **decision-ready insights** to leadership.

# RISK ASSESSMENT & MITIGATION PLAN (FULL)

Key Risk Identified	Potential Impact	Mitigation Strategy
Privacy and Data Security	<ul style="list-style-type: none"><li>Employees may become hesitant towards sharing data.</li><li>Non-compliance with data protection laws could lead to legal ramifications.</li></ul>	<ul style="list-style-type: none"><li>Enforce strict access controls.</li><li>Conduct regular audits to ensure compliance with privacy laws.</li></ul>
Bias and Fairness	<ul style="list-style-type: none"><li>Biased data can reinforce existing gender, racial, or socioeconomic disparities.</li><li>Unfair biases could damage Innovate Tech's reputation.</li><li>Bias can lead to legal scrutiny.</li></ul>	<ul style="list-style-type: none"><li>Implement bias audits to correct discriminatory processes.</li><li>Involve human oversight in all AI-powered decision-making.</li><li>Train AI models on diverse datasets to minimize bias.</li></ul>
Transparency and Trust	<ul style="list-style-type: none"><li>Employees may be hesitant to trust or adopt AI-powered insights.</li><li>Lower employee morale and motivation.</li></ul>	<ul style="list-style-type: none"><li>Use easily explainable and accessible AI models.</li><li>Communicate the role of AI and how it seamlessly integrates with employees.</li></ul>
Job Displacement and Resistance to Change	<ul style="list-style-type: none"><li>Employees may resist AI adoption initiatives.</li><li>Employee morale, engagement, and productivity may be at risk.</li></ul>	<ul style="list-style-type: none"><li>Provide training and upskilling opportunities for employee.</li><li>Work with Senior Leadership to communicate the role that AI will play in the organization.</li></ul>
Data Quality and Integration	<ul style="list-style-type: none"><li>Incomplete data can lead to misleading analysis.</li><li>Inaccurate data can lead to faulty decision-making.</li></ul>	<ul style="list-style-type: none"><li>Collaborate with IT and Data teams to ensure standard data collection.</li><li>Issue data quality control measures and frequent auditing.</li></ul>
Lack of AI Fluency	<ul style="list-style-type: none"><li>Learning curves and misinterpretation of AI insights may decrease efficiency, slowing down decision-making and reducing productivity.</li></ul>	<ul style="list-style-type: none"><li>Provide AI literacy programs and data training for employees.</li><li>Collaborate with IT/Data departments for user training support.</li><li>Ensure that AI tools adopted are user-friendly.</li></ul>



# COSTS, ROI & ETHICAL RISK BREAKDOWN

- 1. Costs:
  - a. Team building / Internal hiring costs
  - b. External communication campaign for stakeholder engagement
  - c. Hiring third-party vendor for AI strategy

Role	Qty	Salary Range (USD)	Est. Total
Director of People Analytics	1	\$150,000	\$150,000
Senior Data Analyst	1	\$100K - \$120K	\$110,000
Junior Data Analyst	1	\$70K - \$90K	\$80,000
Data Engineers	2	\$110K - \$130K	\$240,000
Data Scientist	1	\$120K - \$130K	\$125,000
Subtotal			\$705,000

- d. Other costs:
    - External vendor support for AI strategy: ~\$100,000
    - Communications, training, and tools: ~\$45,000
    - Total Year 1 Cost: ~\$850,000**



# COSTS, ROI & ETHICAL RISK BREAKDOWN

## 2. Benefits:

- **Reduced employee turnover (projected 30% reduction)**
  - Assume 300 departures per year
  - Average replacement cost per employee: \$15,000
  - 30% reduction = 90 fewer exits → Savings: \$1,350,000
- **Increased productivity & engagement**
  - Estimated 2% improvement in productivity
  - If total payroll is ~\$20M, then Value of gain: ~\$400,000
  - Better hiring/internal mobility through ATS + AI
  - Time and cost savings in recruiting = ~\$150,000
  - **Total Estimated Benefit:** \$1,350,000 (turnover) + \$400,000 (productivity) + \$150,000 (recruitment) = \$1,900,000

# COSTS, ROI & ETHICAL RISK BREAKDOWN

## 3. ROI

- a. Strengthen ROI by reducing turnover, increasing employee engagement, and optimizing the hybrid model = cost savings overall
- b.

$$\text{ROI} = \frac{\text{Benefits} - \text{Costs}}{\text{Costs}} = \frac{1,900,000 - 850,000}{850,000} \approx \mathbf{123\%}$$

# COSTS, ROI & ETHICAL RISK BREAKDOWN

## 4. Ethical Risks:

- Data Privacy and Confidentiality
- Informed Consent and Transparency
- Fairness and Bias Prevention
- Accountability and Governance
- Purpose Limitation
- Psychological and Workplace Impacts