Project Risk Management

a. Event Risk: Predictive models may not work as well if IoT sensors provide inaccurate or insufficient data.
   i. Risk Probability: Moderate
   ii. Risk Impact: High
   iii. Risk Mitigation:
       1. Put in place strict procedures for validating data and create guidelines for ongoing evaluation and enhancement of data quality.
   iv. Contingency Plan:
       1. In the event of data discrepancies, have a backup data source or a fallback mechanism to ensure continuity in predictive maintenance.

b. Event Risk: Challenges in combining predictive maintenance programmes with the infrastructure and systems currently in place for lifts.
   i. Risk Probability: High
   ii. Risk Impact: Moderate
   iii. Risk Mitigation:
       1. Perform in-depth analyses of the system, work closely with lift manufacturers, and allot enough funds to ensure a smooth integration.
   iv. Contingency Plan:
       1. Develop a phased integration approach, allowing for gradual implementation and identifying alternative integration paths if challenges arise.

c. Event Risk: Unforeseen expenses related to the use of AI algorithms, sophisticated sensors, and predictive analytics tools.
   i. Risk Probability: Moderate
   ii. Risk Impact: High
   iii. Risk Mitigation:
       1. Develop a comprehensive budget, conduct regular cost assessments, and prioritize cost-effective solutions without compromising project objectives.

     iv.   Contingency Plan:

          1. Establish a contingency fund for unexpected expenses and regularly revisit the budget to adjust allocations based on project needs.

d. Event Risk: Failure to comply with industry regulations and safety standards governing elevator systems.

     i.   Risk Probability: Low

     ii.   Risk Impact: High

     iii. Risk Mitigation:

          1. Establish a dedicated regulatory compliance team, stay informed about evolving standards, and conduct regular audits to ensure adherence.

     iv. Contingency Plan:

          1. Collaborate with regulatory bodies, maintain open communication, and have a rapid response plan in place to address compliance issues promptly.