First floor AI project card

Fill in one card for the machine or defect detector you would fund first. Fill in what you know; every blank line gets an owner and a date. Any blank line means: not ready to fund.

QUESTION	ANSWER	OWNER / BY WHEN
The expensive machine or fleet you would start with, and the failures you would predict		
Spares you would hold for those failures, and who holds them		
What an hour of its downtime costs, measured by whom and over what period		
What the model costs per year, all in: build, run, integration		
The test: does that downtime cost more than the model? (yes / no, with the two numbers)	☐ Yes ☐ No	
The other candidate: the defect or anomaly you would detect, and the historical data it trains on		
Its reach: what it can catch that you could not spell out rule by rule before		
If an analytics project stalled on this floor before, did a moved sensor or shifted use case force a restart?		
Baseline to prove the win: unplanned downtime hours a month, or defect rate, before anything starts		
Which candidate gets the first budget line, and why (one line)		
How it goes live with minimal disruption to production (window, line, discipline)		
Drift and performance monitoring: who watches it from day one, and what triggers a look		
Does the model touch a step that cannot be redone? (yes / no)	☐ Yes ☐ No	
If yes: the first-time-right validation it passed, named		
Quality bar on that step: highest missed-failure and false-alarm rate you accept		
Who can stop the model on the floor, and how fast		
Decision and date	☐ FUND PREDICTIVE MAINTENANCE ☐ FUND DEFECT DETECTION ☐ NOT YET Date _____ Signed _____	

First floor AI project card

Example (fictional): failure prediction on a bottling filler line

QUESTION	ANSWER	OWNER / BY WHEN
The expensive machine or fleet you would start with, and the failures you would predict	Filler 2, the machine that fills and seals bottles; predict bearing and seamer-head failures	n/a
Spares you would hold for those failures, and who holds them	Seamer heads and bearings held by the maintenance store; minimum stock agreed with Supplier B	Maintenance supervisor
What an hour of its downtime costs, measured by whom and over what period	About $40,000 an hour of lost throughput; plant controller's estimate from the 2025 downtime logs	n/a
What the model costs per year, all in: build, run, integration	About $180,000 a year for build and licenses; integration into the line controls not quoted yet	Engineering manager, quote by 30 Jan
The test: does that downtime cost more than the model? (yes / no, with the two numbers)	**Blank: not ready**: integration cost missing, so the test cannot run yet	Engineering manager, by 30 Jan
The other candidate: the defect or anomaly you would detect, and the historical data it trains on	Cap and label defects at the end-of-line vision system; two years of labeled images	Quality lead
Its reach: what it can catch that you could not spell out rule by rule before	Cap skew and label wrinkles caught from the images, without writing a new rule per defect	Quality lead
If an analytics project stalled on this floor before, did a moved sensor or shifted use case force a restart?	Yes: a 2023 downtime dashboard stalled after a sensor move forced a rebuild; restarts likely killed it	n/a
Baseline to prove the win: unplanned downtime hours a month, or defect rate, before anything starts	11 hours a month unplanned downtime on Filler 2 (2025 average); 1.4% defect rate at final inspection	n/a
Which candidate gets the first budget line, and why (one line)	The filler prediction, because its downtime cost is the bigger number, once the test closes	n/a
How it goes live with minimal disruption to production (window, line, discipline)	Shadow mode for 4 weeks with no line stoppages; go-live in the summer changeover week	Production planner
Drift and performance monitoring: who watches it from day one, and what triggers a look	Plant data lead sends a drift and performance report to the maintenance supervisor every week, from day one	n/a
Does the model touch a step that cannot be redone? (yes / no)	Yes: the vision system's auto-reject scraps bottles, and scrapped product cannot be redone	n/a
If yes: the first-time-right validation it passed, named	**Blank: not ready**	Quality lead, validation plan by 12 Dec
Quality bar on that step: highest missed-failure and false-alarm rate you accept	Missed cap defects above 0.5% on the audited sample unacceptable; false alarms above 5% trigger a review	Quality lead
Who can stop the model on the floor, and how fast	Any shift supervisor can switch the line back to manual inspection; one switch on the line panel	n/a
Decision and date	**☐ FUND PREDICTIVE MAINTENANCE ☐ FUND DEFECT DETECTION ☒ NOT YET · Date 20 Nov · "Test row open and no validation named for auto-reject."**	Plant manager