

### Relationship between Portfolio & Firm Performance

Portfolio Firm Performance







# What are the key challenges in portfolio management?

Too many projects in portfolio

Poor project selection quality

Missing strategic alignment

Untimely termination of projects

Poor transparency of project information

Missing innovative projects in portfolio

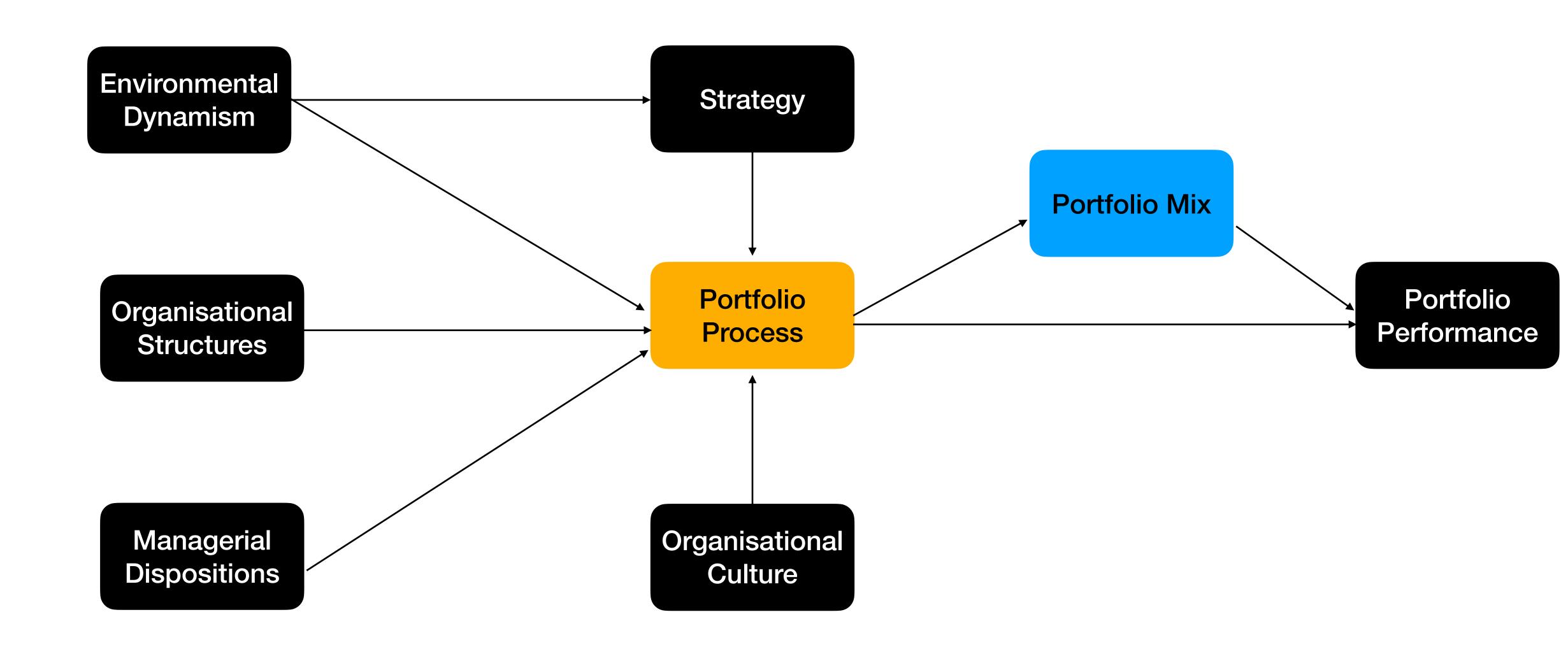
Missing portfolio balance

Too many incremental projects

Delayed project timelines

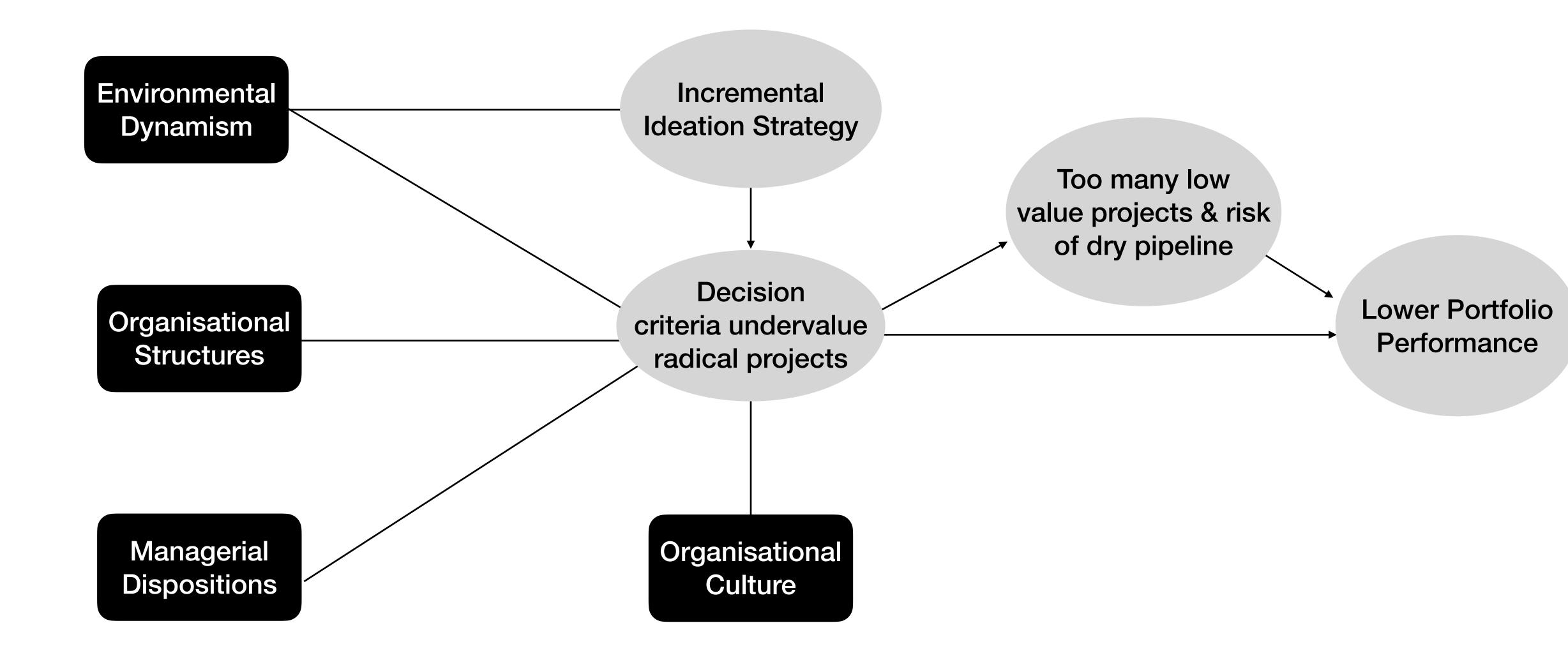
### Why do they exist?

because of underlying context that shapes portfolio process and portfolio mix

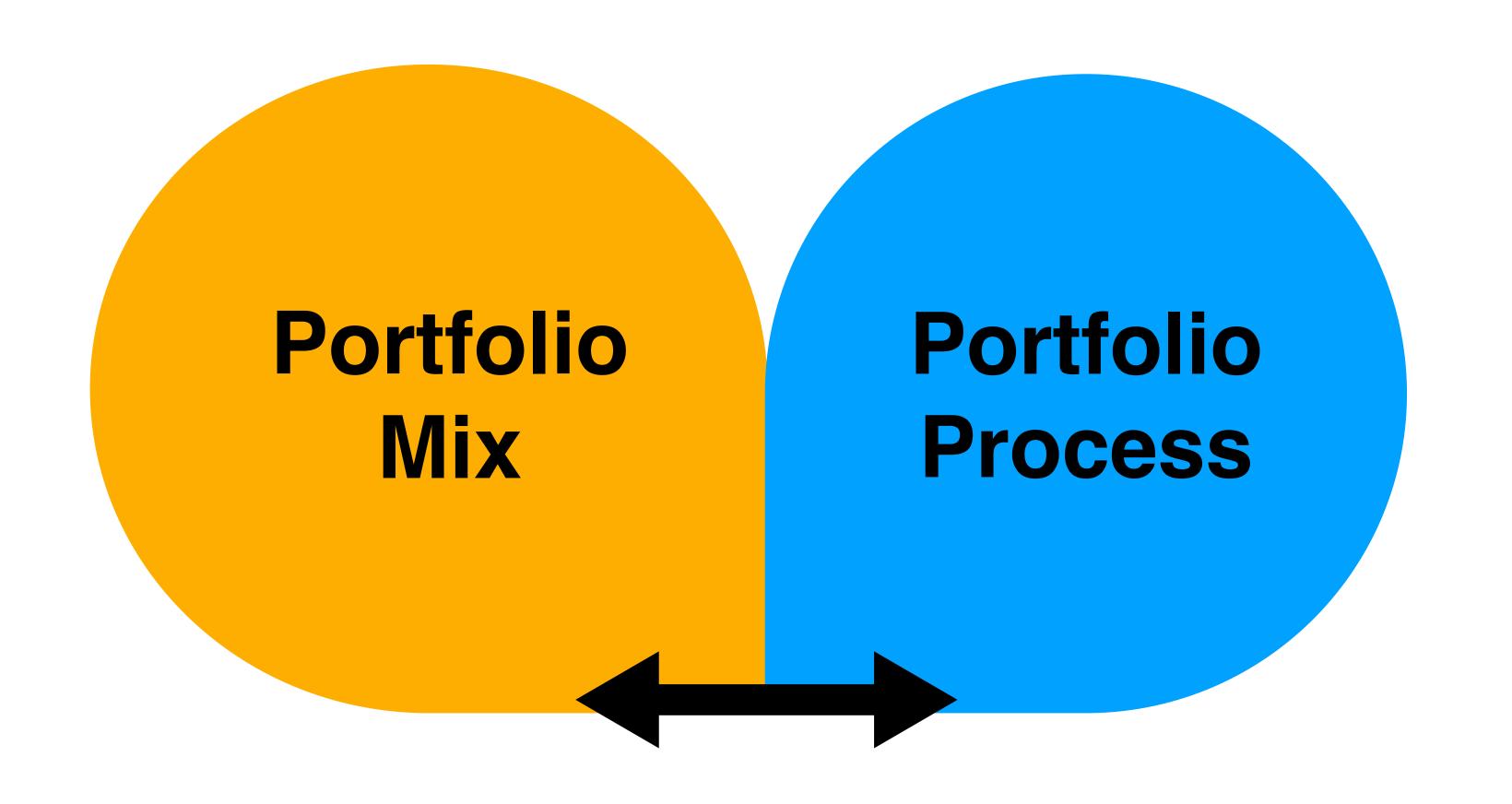


### Why do they exist?

because of underlying context that shapes portfolio process and portfolio mix



### How can we address these portfolio management challenges?



Most of the attention is given to portfolio mix

Acknowledging that portfolio process is a critical aspect of portfolio mix and performance

## What is the process of building portfolios?

Process derived based on fieldwork, theory and observations:

7 years

45 Technology Intensive Firms Across Industries

100 Portfolio Management Stakeholders & CXOs





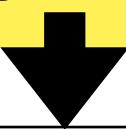
## What is the process of building portfolios?



**Corporate Functions** 

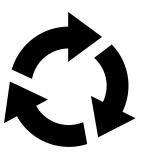
Top Management Functions

**Project Management Functions** 

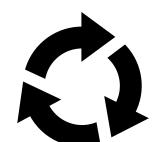




Portfolio Planning



Portfolio Decision-Making



Portfolio Execution





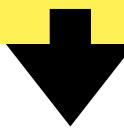
### What is the process of building portfolios?



**Corporate Functions** 

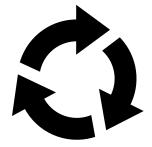
**Top Management Functions** 

**Project Management Functions** 

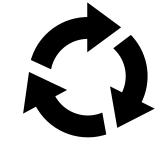




Portfolio Planning



Portfolio Decision-Making



Portfolio Execution



Ecosystem Surveillance

Portfolio Strategy
Development

Business Case Management

Portfolio Decision-Making New
Product or
Service
Management





Collecting Ecosystem Information

#### Ecosystem Surveillance

Generating
Strategic
Insights



Collecting information about entities in a ecosystem



Choosing the level of information to be collected



Assigning information gathering to relevant personnel/units



Determining the budget for information gathering



Identifying patterns & themes which business should consider



Market informed Roadmaps



Better quality business cases



Quality project assessment



**Corporate Functions** 

Collecting Ecosystem Information

**Ecosystem Surveillance** 

Generating
Strategic
Insights

Case of Glass Manufacturing Firm



Market informed Roadmaps



Better quality business cases



Quality project assessment



**Corporate Functions** 

Translating Strategy

#### Portfolio Strategy Development

Analysing Portfolio

Identifying new projects



Clear direction for portfolio decisions



Breaking down high-level strategy into portfolio goals



Identifying gaps into portfolio with respect to strategy



Monitoring performance of existing portfolio & KPIs



Identifying new project opportunities to fix gaps in portfolio



Lower risk of dried pipeline



Better strategic alignment



**Corporate Functions** 

Top
Management
Functions

Translating Strategy

# Development

Analysing Portfolio

Identifying new projects



Clear direction for portfolio decisions



Lower risk of dried pipeline



Better strategic alignment



Case of Cleaning Equipment Firm



Corporate **Functions** 

Top Management **Functions** 

Portfolio Strategy

Preparing project business cases

#### Business Case Management

Assessing project business cases



Assigning a business case task to relevant personnel/unit



Creating a template with information for decision-making



Aligning business case with organisational strategy



Multi-dimensional feasibility test of business case



Challenging assumptions underpinning business case



Better quality portfolio decisions



Evidence based prioritisation



Clear Business
Case Ownership



**Corporate Functions** 

Project
Management
Functions

Preparing project business cases

Business Case Management

Assessing project business cases

### Case of Pump Manufacturing Firm



Better quality portfolio decisions



Evidence based prioritisation



Clear Business
Case Ownership



Corporate Functions

Project
Management
Functions

Monitoring
Portfolio
Performance

#### Portfolio Decisionmaking

Making decision on projects



Ensuring portfolio does not suffer deadlock scenarios



Reviewing individual project performance and portfolio KPIs



Making selection, termination, hibernation project decisions



Agreeing on time commitment and budget for projects



Communicating result of project decisions to relevant owners



Clear Resource Allocation



Strategic Alignment



Higher Portfolio Value



Corporate Functions

Top
Management
Functions

Monitoring
Portfolio
Performance

Portfolio Decisionmaking

Making decision on projects

Case of Medical Equipment Firm



Clear Resource Allocation



Strategic Alignment



Higher Portfolio Value



Corporate Functions

Top
Management
Functions

#### **Portfolio Execution**

Allocating resources

### New Product/ Service Management

Stage-Gate system

Post-Launch Tracking



Making resource allocation plan and deciding its method



Configuring Stage-Gate process for project type



Setting up a method to capture lessons learned



Monitoring product sales & taking corrective actions



Monitoring success ratio of project business cases



Lesser Project
Delays



Increased Learning



Higher Portfolio Performance



Corporate Functions

Project
Management
Functions

#### Portfolio Execution

Allocating resources

New Product/ Service Management

Stage-Gate system

Post-Launch Tracking

### Case of Consumer Electronics Firm



Lesser Project
Delays



Increased Learning



Higher Portfolio Performance



Corporate Functions

Project
Management
Functions

### Portfolio Process of Industrial Automation Equipment Firm

\$\$\$ million Turnover Annually

20+ Projects (Business Unit Portfolio)

8+ Market Segments

Project Type: New Technology, Lifecycle, Incremental

### Portfolio Process of Industrial Automation Equipment Firm

Marketing, Sales, Product Product,
Senior
Management

Product,
Senior
Management

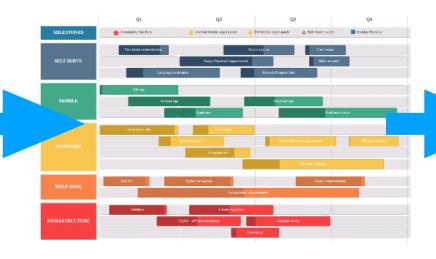
Product,
Senior
Management

Product, R&D/ Engineering Product,
Marketing,
Sales

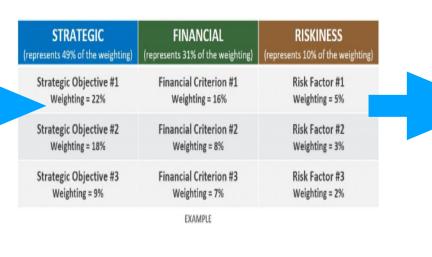
Market Intelligence Product Roadmaps Business Model Canvas Portfolio Decisions

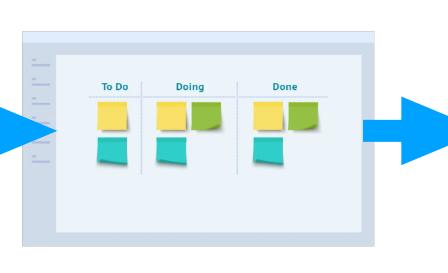
Project Execution Product Launch











Portfolio Planning

Portfolio Decision-Making

Portfolio Execution

### Portfolio Process of Industrial Automation Equipment Firm

#### Before:

Project decisions were taken by high-level comparison between projects



No formal prioritisation criteria for assessing and comparing projects



Unstructured & subjective decision-making process



Unclear priorities leading to project delays and lower portfolio value

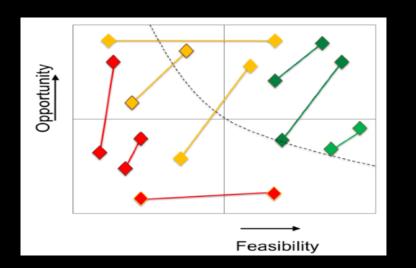
Product, Senior Management

#### Portfolio Decisions

(r	STRATEGIC	FINANCIAL	RISKINESS	
	epresents 49% of the weighting)	(represents 31% of the weighting)	(represents 10% of the weighting)	
	Strategic Objective #1	Financial Criterion #1	Risk Factor #1	
	Weighting = 22%	Weighting = 16%	Weighting = 5%	
	Strategic Objective #2	Financial Criterion #2	Risk Factor #2	
	Weighting = 18%	Weighting = 8%	Weighting = 3%	
	Strategic Objective #3	Financial Criterion #3	Risk Factor #3	
	Weighting = 9%	Weighting = 7%	Weighting = 2%	

#### After:

Project decisions were taken by formal and structured project comparison





Objective criteria and evidence based prioritisation



Structured and stakeholder aligned decision-making



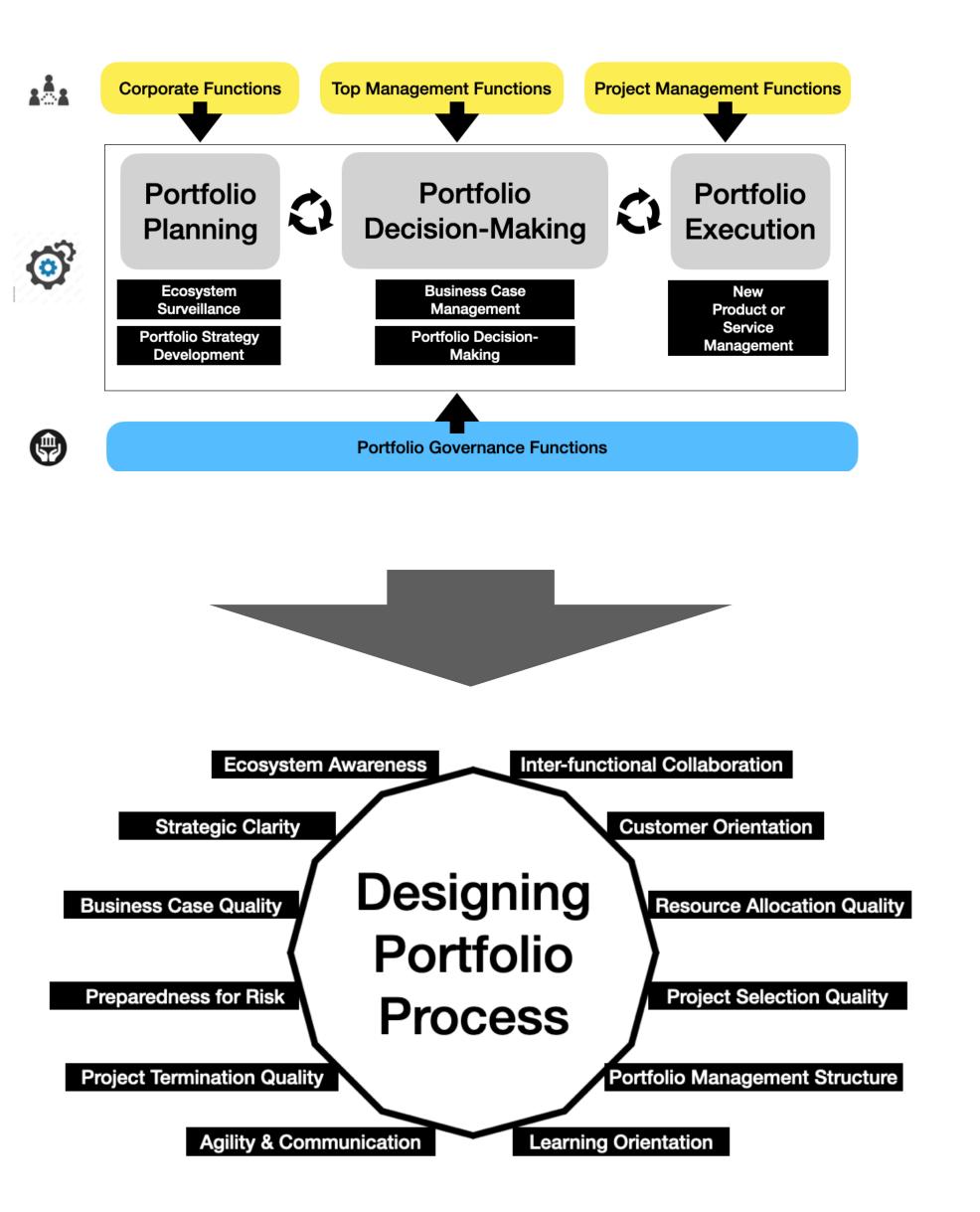
Better resource allocation quality and lower project delays

Poor project selection quality

Missing strategie alignment

Delayed project timelines

### **Configuration Tool for Portfolio Processes**



UNIVERSITY OF AS CAMBRIDGE	Assessment of Portfoli		UNIVERSITY OF Assessment of Portfolio Management Practices CAMBRIDGE				
	RELEVANCE	IMPORT	V	RELEVANCE	IMPORTANCE	CONSISTENCY	EXECUTION QUALITY
Low Medium High		0	Low Medium High				QUALITY
ores 0-3 4-7 8-10		Not Important	Scores 0-3 4-7 8-10		0 10	0 % 10 20 30 40 50 60 70 80 90 100%	0 % 10 20 30 40 50 60 70 80 90 1
A. Ecosystem Awareness			H. Project Selection Quality		important importance	Don't use practice practice every time when appropriate	quality pr
Invest resources for market and customer investigations	YES	7	Assess individual projects from multi-functional perspectives (e.g.	1000			
(e.g. funds, personnel)  Identify market and social trends across different geographical regions	YES	5	technical, strategic criteria etc.)	YES	7	60	60
Investigate new technologies and review Intellectual Property (internally)		8	<ul> <li>Use assessment methods and visuals which reveal merits/de-merits of individual projects and portfolio compositions</li> </ul>	YES	7	50	60
Scan for opportunities for Merger & Acquisition	NO (2YES)	3	<ul> <li>Perform portfolio checks by categorizing projects from different perspectives (e.g. related to budget, balance, resources)</li> </ul>	YES	7	50	50
(e.g. set-up incubators)  Gather competition insights from commercial ends	YES	6	<ul> <li>Understand opportunity cost of projects that are not selected and discuss alternatives (if needed)</li> </ul>	YES (1 NO)	6	30	40
(e.g. from sales, suppliers, distributors)  Monitor existing products in market and identify life cycle management			<ul> <li>Get inputs from top management for final prioritization of projects and resource authorization</li> </ul>	YES	8	50	60
needs  Analyze & prioritize micro/macro trends to identify business	TES	7	Use stage-gate reviews to ensure validity of business cases over time	YES	9	60	60
requirements	YES (1 NO)	5	<ul> <li>Identify warning signals for 'pet' projects</li> </ul>	YES	7	40	40
B. Inter-functional Collaboration			<ul> <li>Communicate portfolio decisions with further guidance to project applicants</li> </ul>	YES	7	50	60
<ul> <li>Govern portfolio(s) from different functional perspectives— R&amp;D, Finance, Marketing etc.</li> </ul>	YES(1 NO)	5					
<ul> <li>Functional and regional experts together conduct business reviews</li> </ul>	YES	8	I. Project Termination Quality     Identify internal and external warning signals leading to project	VEC			
<ul> <li>Corporate functions share project and portfolio level information with each other</li> </ul>	YES	7	termination	YES	7	50	50
<ul> <li>Corporate functions together create, maintain, and own technology and business roadmaps</li> </ul>	YES	8	<ul> <li>Use measures to avoid escalation of commitment in projects (e.g. forward looking attitude, back-up projects in case of termination)</li> </ul>	YES	6	40	30
C. Strategic Clarity			<ul> <li>Involve top management team in termination decisions and communicate the grounds of project termination</li> </ul>	YES (2 NO)	8	50	60
Use strategic buckets to guide overall resource allocation	YES	9	<ul> <li>Use a set of criteria for project termination (e.g. fundamental limits of technology, strategically irrelevant)</li> </ul>	YES	8	30	40
Identify strategic targets based on long term roadmaps	YES	8	<ul> <li>Put projects on hold when warranted and assess implications of termination</li> </ul>	YES	8	50	50
Set direction and priorities for developing technology platforms and capabilities	YES	9	<ul> <li>Terminate "bad" projects in early phases of execution (e.g. by using a robust stage-gate process)</li> </ul>	YES	8	50	50
Translate business strategy into new product ideas and plans	YES (1 NO)	7					
Use strategy and roadmaps to define new product assessment criteria	YES	7	J. Learning Orientation				
<ul> <li>Fill strategic gaps in portfolio(s) by identifying new project opportunities across different organizational levels</li> </ul>	YES	6	<ul> <li>Enact and improve portfolio management process with support from top management team</li> </ul>	YES	7	60	50
D. Customer Orientation			<ul> <li>Audit portfolio management process and introduce changes while considering organizational readiness levels</li> </ul>	YES	7	50	50
Understand customer roadmaps and identify value addition	YES (1 NO)	-	<ul> <li>Capture learnings at stage-gates &amp; create formal learning reports for future references</li> </ul>	YES	8	40	40
opportunities or unmet needs  Maintain dialogues with customers from early stages of	YES (1 NO)	7	K. Portfolio Management Structure & Design				
product/technology development  Gather customer feedback on short & long term product plans by doing	1=0	7	Portfolio management team or unit (if exists) provide support to	YES	7	F0.	F0
prototyping or trials using new technologies (e.g. Virtual Reality)	YES (1 NO)	7	business lines and project managers  Portfolio management process performs the function of balancing		7	50	50
E. Business Case Management Quality			demand vs supply of resources	YES (1 NO)	6	40	50
<ul> <li>Do due-diligence to gather evidence behind assumptions and numbers in business cases</li> </ul>	YES (1 NO)	6	<ul> <li>Portfolio management process performs the function of change management (e.g. resource changes)</li> </ul>	YES (2NO)	4	40	30
<ul> <li>Ensure accountability &amp; feasibility of business cases from functional perspectives (e.g. by creating functional approvals points in the cases)</li> </ul>	YES	7	<ul> <li>Portfolio management process manage transition of ideas to businesses holistically</li> </ul>	YES (1 NO)	5	30	30
Get the information from the business cases that is required for portfolio decision-making (e.g. NPV, strategic impact)	YES	8	Take portfolio decisions in line with required leadership in market and innovation	YES	6	50	50
Generate visuals & insights/recommendations based on business case assessment as needed by top management for decision-making	YES	8	Use different stage-gate processes according to projects types	YES	7	60	60
Identify issues while monitoring progress of business cases	YES	7	Formally manage portfolio data using IT tools and applications	YES (1 NO)	6	50	50
(e.g. unmet objectives, low sales)			<ul> <li>Use learning from previous projects during portfolio decision-making events</li> </ul>	YES	7	60	50
F. Resource Allocation Quality  Get operational clarity (e.g. resource availability) at project as well as	YES		<ul> <li>Use a guide that describes portfolio management activities, roles and responsibilities, project templates etc.</li> </ul>	YES	8	40	50
portfolio levels  Manage resource allocation requests and conflicts	7.00	8	Synchronize portfolio decision-making or reviews with product and	YES (1 NO)	6	30	30
(e.g. by using a resource management process)	YES (1 NO)	7	industry characteristics (e.g. high-tech product need frequent reviews)				
Use explicit basis to prioritize or negotiate resource allocations (e.g. roadmaps/criteria)	YES	9	L. Agility	vee			
<ul> <li>Create resource allocation plans and assess implications of resource commitments</li> </ul>	YES (1 NO)	7	<ul> <li>Update portfolio strategy, roadmaps, business cases</li> <li>Reprioritize projects and resource allocations with changes in internal</li> </ul>	YES	8	60	70
G. Preparedness for Risk			and external environment (e.g. change in strategic focus)	YES	9	60	60
<ul> <li>Identify and manage project level risks (e.g. market, technology, delivery)</li> </ul>	YES (2 NO)	7	Communicate project and portfolio updates to top management team	YES	9	50	60
Identify and manage portfolio level risks (e.g. over-budget, balance between products' time to market)	YES	7	<ul> <li>Handle urgencies or new opportunities at project and portfolio levels (e.g. by having extraordinary portfolio decision-making meetings)</li> </ul>	YES	9	40	40
Leave slack resources or capacity to handle contingencies	YES	8	<ul> <li>Assess sensitivities or implications of changes in portfolio, resource allocations etc.</li> </ul>	YES (1 NO)	7	40	40



Building portfolio is a continuous journey...