

CASHCOW

PORTFOLIO PRESENTATION





PRESENTATION OVERVIEW

BACKGROUND

Overview of the Multi-Project Management Exercise (MPME) and its objectives. Why managing multiple projects

effectively is critical in real-world scenarios.

03

PROJECT

MANAGEMENT APPROACH

The strategies used by individual Project Managers to execute their tasks. Key challenges faced at the project level and how they were addressed.

PORTFOLIO

MANAGEMENT APPROACH

How the Portfolio Team coordinated multiple projects. Decision-making, resource allocation, and team communication strategies.

04

EVALUATION

Reflection on successes and areas for improvement. Insights gained from the simulation that can be applied to real-world multiproject environments.



OUR TEAM







ORGANISATIONAL STRUCTURE









Balanced Profitability & Flexibility

We strategically selected one high-earning project to maximize revenue while also choosing one project with flexible deadlines to allow room for adjustments. This ensured a mix of financial stability and adaptability in managing resources and timelines.



Optimised Resource Allocation

By selecting projects with different time constraints, we could distribute resources efficiently across the portfolio. This reduced bottlenecks and allowed us to prioritise workload based on urgency and potential risks.



Cross Project Integration

By selecting projects with different time constraints, we could create opportunities for knowledge sharing & collaboration reducing the risk of widespread project failure. This also allowed portfolio team to have better resources planning for other projects





TIMELINE

	P1							
	Albania	Croatia	Finaland	Honduras	Total			
Designers	4	6	8	6	24			
Assemblers	0	0	0	0	0			
Testers	0	0	0	0	0			
Inspector days								
			P5					
	Albania	Croatia	Finaland	Honduras	Total			
Designers	2	0	0	0	2			
Assemblers	1	3	5	1	10			
Testers	0	3	0	1	4			
Inspector day	/s							





Project Selection & Strategy

- Chose a high-earning project and a time-flexible project to balance profitability and adaptability.
- Developed a resource allocation plan based on project needs and constraints.
- Communication Approach: From the start, we adopted a democratic decision-making style, ensuring all voices were heard in selecting projects.
- Resource Scheduling heuristics: Most Resources
 First

Execution & Challenges

- Faced resource bottlenecks and scheduling conflicts across projects.
- Managed unexpected delays and cost variations, adjusting strategy as needed.
- Communication Approach Amended: Encouraged open dialogue within the team, allowing everyone to contribute to problem-solving but ensured



Setting out future objectives and strategies for achieving them

Our focus moving forward is on optimizing resource allocation, strengthening decision-making processes, and applying key learnings to improve efficiency. By continuously refining our approach, we aim to enhance project success and mitigate risks."



Adjustments & Optimization

- Are we on track and how much intervention is needed?
- Reallocated resources dynamically to meet deadlines and minimize penalties.
- Improved communication & decision-making across the teams.



Reflection & Key Learnings

- Analyzed what worked well and what could be improved.
- Identified strategies for better risk management and efficiency in future projects.
- Review the initial plan. What assumptions did we make



PORTFOLIO RISK STRATEGY

FINLAND

TIME QUALITY COST

• Strategic diversification of risk across projects with varied contract values and durations.

- Balance of high risk and low risk contracts.
- Prioritisation of projects depending on their durations and cost of penalties.
- Based on contract values, individual projects were able to determine their own triple constraint objectives.
- Consistent scheduling across project in the planning phase to allow for 'worst-case scenario'.
- Aimed for top two projects to be risk averse to minimise time overruns.

CROATIA

TIME QUALITY COST

HONDURAS

3 COST TIME QUALITY

ALBANIA

COST QUALITY TIME



PORTOLIO RISK MATRIX

Project	Risk	As a result of (CAUSE)	Uncertain event may occur (RISK)	Which would lead to effect on objective(s) (IMPACT)	Probability (L/M/H)	Mitigation Strategy	Contingency Plan
	lower priority projects	Only one inspector is available for the overall portfolio within each period.	period, potentially leading to	Inspections on the critical and sub-critical paths will be delayed by up to 20 days.	HIGH	Try to rearrange inspection days across projects to run sequentially to avoid clashes. Use float to our advantage.	Recruit an additional inspector in the busiest period 5 to minimise the risk of time delays for projects.
	Lower priority projects receive less resources in the initial periods increasing the probability of delay risks on the critical path.	Misallocation of internal resources to each project based on overall portfolio strategy.	meet portfolio objectives	Project delays will result in penalties per extra day reducing the overall portfolio profit.	MEDIUM	Clear communication between project teams and portfolio team to identify minimum resources required to complete project on-time.	Maximise resources in the final periods to reduce the durations of finals tasks for lower priority projects.
CASH COW	•	Fixed resource and potential task overruns	A task may be delayed and not completed within the planned period		MEDIUM	Calculate all task durations based on the maximum potential time	Prioritise the most critical project and recruit additional resources for the next period to cover the gap caused.
	between projects leading to	Poor establishment of communication channels and lack of clear leadership roles.	decision-making leading to	Potentially poor project decision-making leading to project failures such as delays and losses.	LOW	Establish a clear portfolio organisation structure and assign each member a role to encourage delegation of tasks.	Allow room in the budget at the portfolio level to rectify any poor project decisions or mistakes.



FINLAND RISK MATRIX

Project	Risk No.	As a result of (CAUSE)	Uncertain event may occur (RISK)	Which would lead to effect on objective(s) (IMPACT)	Probability (L/M/H)	Impact on T/C/Q/ in days and/or £	Mitigation Strategy	Contingency Plan
	M311	estimated man-days and design job not being completed within planned time frame.	resulting in the duration of M311 being pushed into later periods 5/6 and	Missed inspection for I016 - this would need to be rebooked one period in advance resulting in reduced time on the critical path for later jobs.	High	project finishing 10+ days later.	reassign all internal designers to the sub-critical path.	Account for extra resources that may need to be distributed to assembly and test jobs on the critical path in periods 5-7 to reduce the duration of tasks.
	D108	estimated man-days and design job not being completed within planned time frame.	thus pushing the inspection - IO17 later. This is	Delayed inspection and delayed start to T522 on the critical path which could result in the overall project running over schedule.	Medium	extra £400/day on a designer in the next period as a contingency. Cost - £10,000 per day for	will complete M312 in the least amount of time and ensure that there is float after M312 to minimise the	Booking additional designers in the subsequent period to ensure that D108 is completed and does not impact the start of the M312.
Finland	1019	failed inspection due to M315 overrunning or low quality. This is a significant risk as this job falls on the	to be rebooked for the next period resulting in up to 20 days lost. This will delay the	later periods will affect T523 and subsequently A724 on the critical path which could	Medium	Time - Additional time spent on this manufacturing job which could lead to the	Choose a manufacturer with a reliable history and record of high quality to reduce the risk of failed inspection or the job overrunning.	and testers in period 6 to
		assembly of A729.	need to be redone in the next period.	Could delay the start of A721 and subsequently delay tasks on the critical path.	Medium	Time - A whole period is used to repeat the assembly and test jobs. Possible delay impact on A721 being	and testers in period 4 to ensure that these jobs are completed within one period. This ensures that if the jobs need to be repeated, float can be used	Book at least one additional assembler and tester in period 5 to reduce the delay of A721 starting later.



CROATIA RISK MATRIX

Project	Risk No.	As a result of (CAUSE)	Uncertain event may occur (RISK)	Which would lead to effect on objective(s) (IMPACT)	Probability (L/M/H)	Impact on T/C/Q/ in days and/or £	Mitigation Strategy	Contingency Plan
	P204 (A)	Quality of the selected purchaser (Y163)	Supplier failure and task P204 will be delayed	Inspection I013 will be delayed	High	Cost - £4,500 for 3 missed inspection days	Select a more reputable supplier	Allow for space in the budget to rebook inspection days and choose a more expensive supplier.
	1028	I028 not commencing in period 2 as planned (Oversight)	Inspection days not captured in decision sheet were missed	Delay in commencement of Task A729	Medium		appropriately and pay attention	Book extra inspection days in period 3 and ensure that decision sheets are appropriately reviewed by the team before submission.
Croatia	P204 (B)	Quality of the selected purchaser (Y465)	Supplier failed and Task P204 was delayed	Inspection I013 will be delayed	Medium	•	Select the highest quality supplier	Select a more reputable supplier Y364 AT Day 70
	A729	A729 not commencing in Period 3 (Oversight)	-	Delay in commencement of task A729 and T530	Medium	-	Review decision sheets appropriately and pay attention to bookings on decision sheets	Book extra assemblers to finish the task faster in period 4
	Т530	Test Failure	Initial Test Failure and repeat of the assembly task A729	Delay in commencement of Task A721 which is on the critical path	High	Sunk Cost of initial assembly work on A721	on A729 in subsequent period	Additional testers and assemblers booked in advance for the next period





ALBANIA RISK MATRIX

Project	Risk No.	As a result of (CAUSE)	Uncertain event may occur (RISK)	Which would lead to effect on objective(s) (IMPACT)	Probability (L/M/H)	Impact on T/C/Q/ in days and/or £	Mitigation Strategy	Contingency Plan
	D108	Extension of D108's estimated man-days.	and Dilly not hoing	M312 will delay and T522 on the critical path will be influenced.	Medium	Time-20 days delay for the completion of all design jobs Cost- Extra 3 designers (£24000) in period 5 and 6 for D105 and D109.	Start job task earlier with sufficient designer resources in period 3.	Set as the priority design job in period 4 and select the most reputable subcontractor with shorter durations in case of failure and delays.
Albania	D109	Extension of D109's estimated man-days and insufficient designers in period 6.	M315 cannot commence.	The whole project's progress will be delayed.	High	Time-10 days delay of commencing M315 Cost-Extra 1 designer in period 6 (£8000) and extra assembles and testers in later 2 periods to ensure the delivery date	Book an extra designer in period	Select the most reputable subcontractor for M315 and maximize the assemblers and testers in period 7 and 8.
	1028	Time conflicts for the inspections	A729 may not finished in period 2 and the need of extra assemblers in the next period.	Delay of T530	Medium	Cost- Extra 1 assembler(£10000) in period 2	Select the first few days to do the inspection in period 2.	Book extra assemblers to ensure the A729 completed in period 2.
	T530		Both A729 and T530 will have to be redone in the next period.	A721 will not be able to start on time.		Cost- Extra 1 assembler(£10000) and 1 Tester(£12000) for restarting the A729 and T530	period 5 and 1 tester in period	Book 2 extra assemblers and 2 testers in period 6 in case of the failure and its impact on A721.
	T523	Extension of A729's and T523's estimated mandays		Delayed delivery date	Medium	Time- Resulted in the 10 days delay of the delivery date Cost- The cost of extra assemblers and testers out of planning and the penalty of 10 days (£75,000) delay of delivery time	Book the maximum assemblers and testers in period 8.	Book the extra inspection days in case of delay.





HONDURAS RISK MATRIX

Project	Risk No.	As a result of (CAUSE)	Uncertain event may occur (RISK)	Which would lead to effect on objective(s) (IMPACT)	Probability (L/M/H)	Impact on T/C/Q/ in days and/or £	Mitigation Strategy	Contingency Plan
(M311	savings, supplier X251 was chosen, which offered low prices but	due to quality qualification issues,	All tasks on the critical path were delayed, resulting in a significant of not finishing in 140 days.	High	Time - M311 was completed only around 140 days later. This inevitably led to delays in the entire project. Cost - Penalties of £8,000 for each day of delay.	high quality even though more expensive	Allocate as many resources as possible in periods 7 and 8 to finish the project on time, as this delay affected the critical path directly.
Honduras	D108	completion time for	T522 on the critical path.	The delayed start of T522 is likely to cause a delay in the delivery of the entire project.	Medium	over to the next period, more designers will have to be	Select a subcontractor that can guarantee the speed and quality of delivery for M312 to reduce the overall risk of delay	Book additional designers to ensure the completion of D108.
(P214	<u> </u>	withdrew midway causing	Selection of a new supplier and would make 1018 delay.	Medium	Cost - £3,000 for 2 inspection days	Select the most expensive but more reliable supplier	Re-select Y567 as a contingency plan.
	T530		A729 and T530	A721 will start later, leading to an overall delay risk.	Medium	A721 and T530 need to rebooked, causing additional costs.	Allocate sufficient assemblers and testers at an early period to prevent failures when no one is available.	Consider the possibility of the test failure and book the necessary additional resources in advance







✓ Value: £1.1m

✓ Lead Time: 130 days

✓ Penalties: £10k/day

Performance:

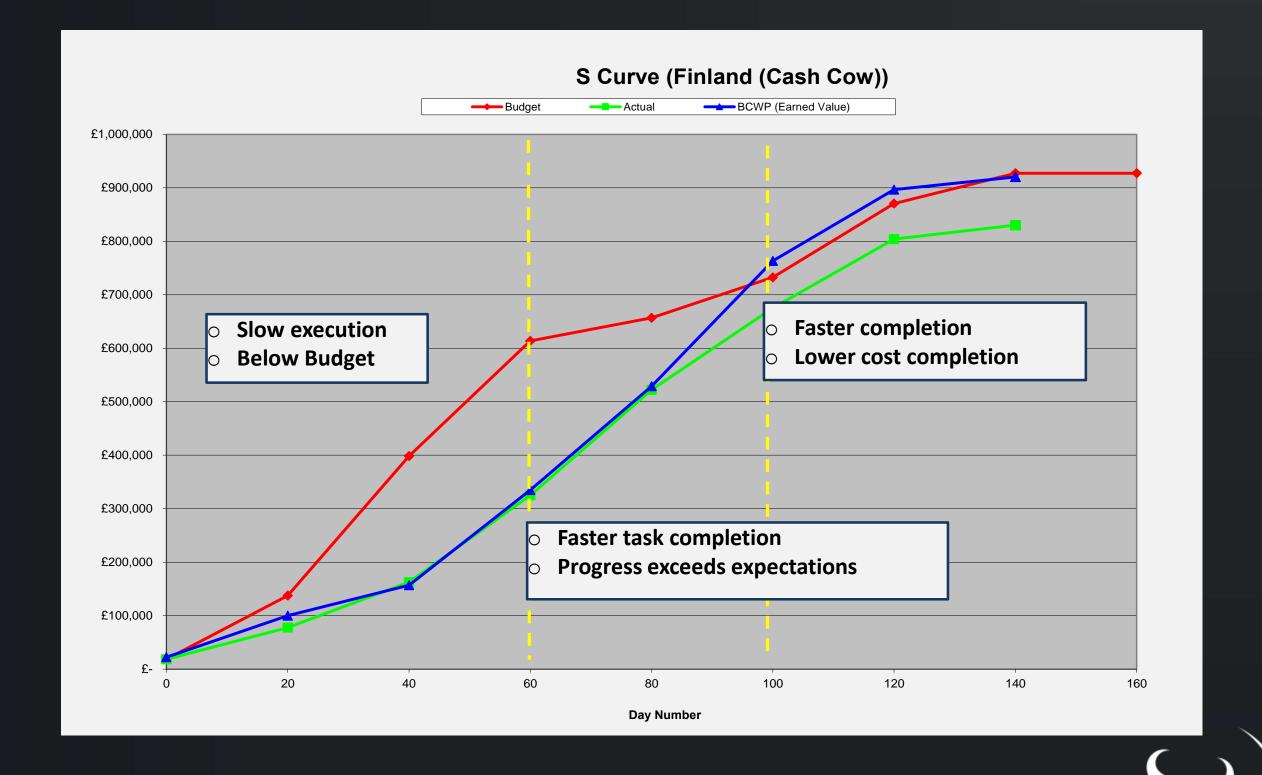
VCompletion: 129 days

VTotal spend: £830, 346.63

✓Penalties: £0

VFinal profit: £269.653.37





PROJECT 1 FINLAND



SUCCESSES

- High-quality resource selection
- Maximum time estimation for scheduling in the initial stages of the project.
- Adaptability when faced with project set-backs.
- Efficient communication between members
- Contingencies for job tasks (i.e., booking extra resources in later periods in case of delay)

CHALLENGES

- Slow initial progress
- Coordinating multiple teams
- Balancing project needs with portfolio goals

LESSONS LEARNED

- The importance of communication
- The importance of collaboration



CROATIANA



PROJECT 2 Croatia

Contract

✓ Value: £1.05m

✓ Lead Time: 140 days

✓ Penalties: £10k/day

Performance:

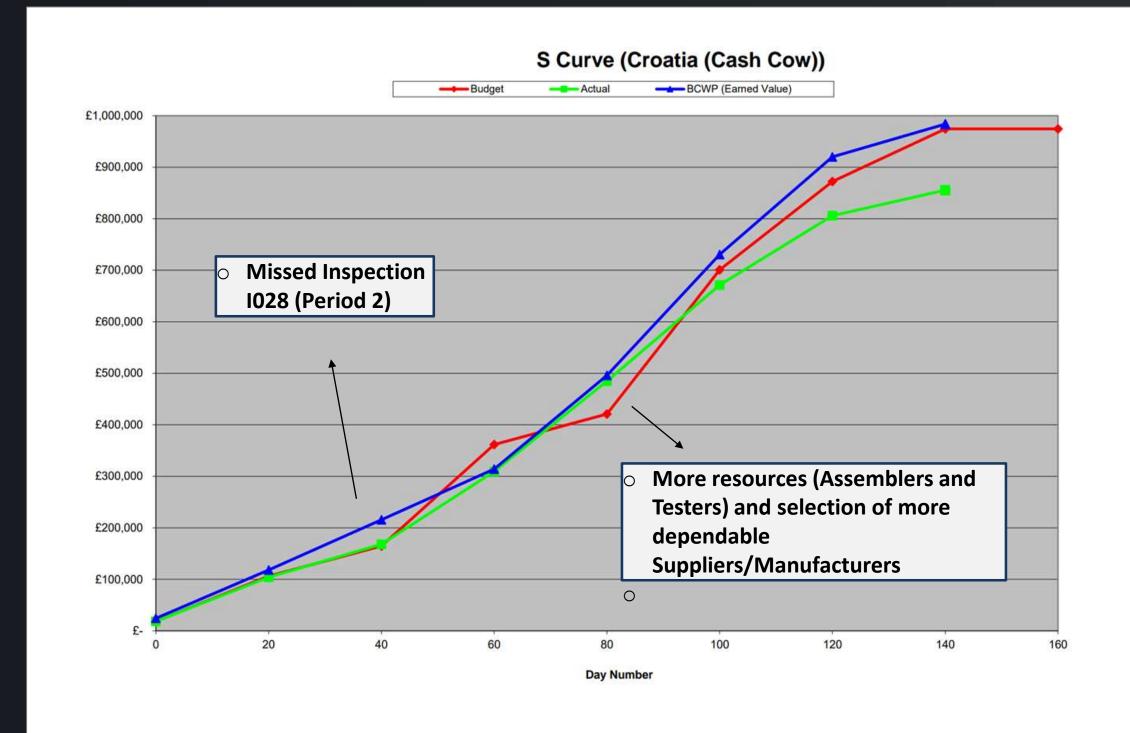
✓ Completion: 140 Days

✓ Total spend: £855,553.08

✓ Penalties payment: 0

✓ Final profit: £194,446.92







PROJECT 2 CROATIA

SUCCESSES

- Proper Task Delegation (Risk, Gantt Chart, Supplier/Manufacturer Review, Decision Sheets)
- Effective Communication (Formal and informal channels, Frequency and Feedback)
- Experience from the PPMC allowed for optimal decision making (Buffers and Resource Allocation)
- Lessons Learned and Documents from the PPMC Exercise
- Flexible Plans and adequate change approval process within the Project Team
- Excellent Soft Skills

CHALLENGES

- Cross-project communication at the initiation and planning stage
- Language Barriers

LESSONS LEARNED

- Document & Apply Lessons Learned to improve future projects.
- Identify Risks Early to prevent future issues.
- Constant Communication boosts team performance.
- Centralized Portfolio Team increases individual project success.
- Strength-Based Task Allocation enhances efficiency.
- Make Data-Driven Decisions—avoid assumptions.



COUNTRY INTRODUCTION

PROJECT 3 Albania

Contract

✓ Value: £900k

✓ Lead Time: 150 Days

✓ Penalties: £7,500/ Day

Performance:

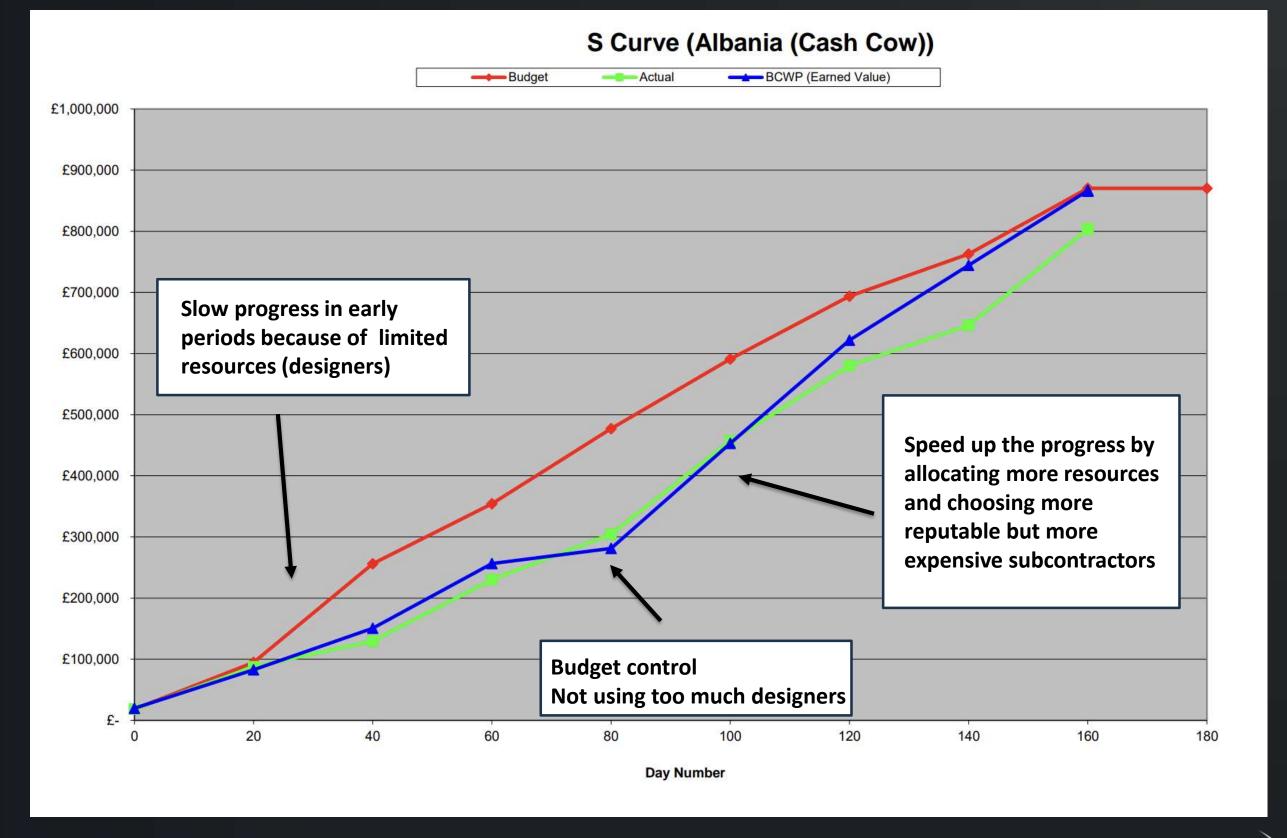
✓Completion: 160 Days

√Total spend: £803,647.79

✓ Penalties payment: £75, 000

✓ Final profit: £21, 352.21







PROJECT 3 ALBANIA

SUCCESSES

- Budget controlling

 e.g. not exceeding the human resources at the level of band B or trying to allocate the assembler work and test task in one period)
- High-quality subcontractors and suppliers selection (trade money for time)
- Mitigation plan according to previous experiences

 (extra resources for task failure and extension in case of the time delay)
- Good teamworking

CHALLENGES

- Limited resource allocation as the project was low priority in the portfolio.
- Extension beyond expectation

LESSONS LEARNED

- Initial strategy for portfolio management
- Sufficient communication between project teams
- Mitigation plan and contingency plan



COUNTRY INTRODUCTION

PROJECT 4 Honduras

Contract

√ Value: £1.05m

✓ Lead Time: 140 Days

✓ Penalties: £8,000/ Day

Performance:

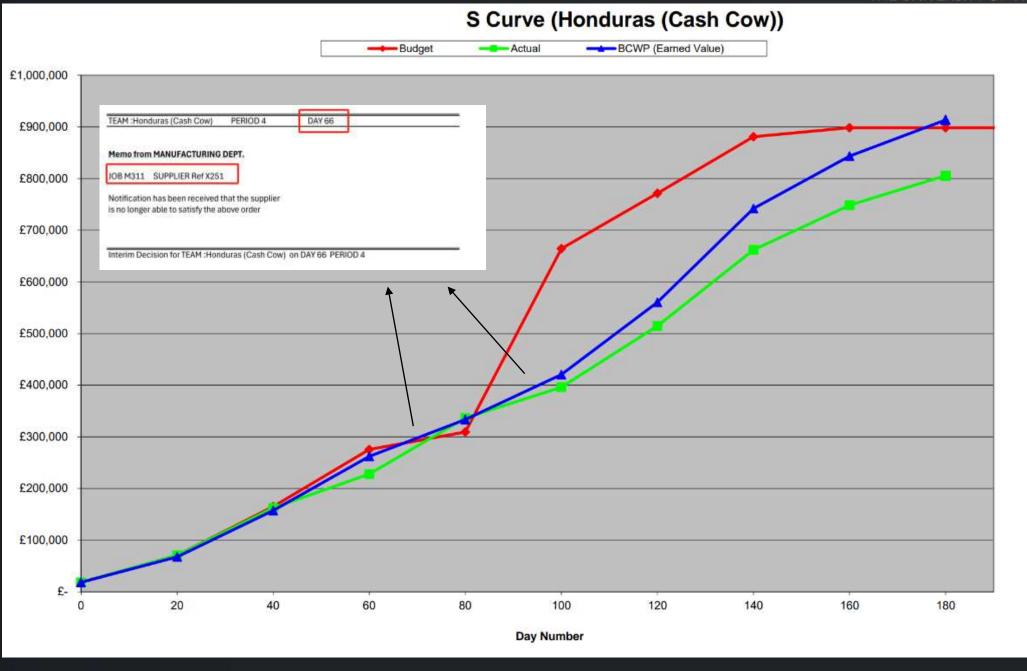
✓Completion: 171 Days

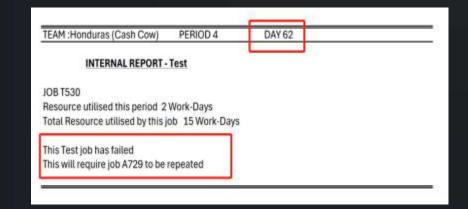
✓ Total Spend: £805,754.32

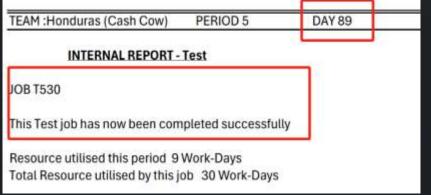
✓ Penalties Payment: £248,000

✓ Final Profit: -£3,754.32











PROJECT 4 HONDURAS

SUCCESSES

- Acceptable Overall Cost Control
- Reasonable Arrangement of Inspectors
- Effective Ways of Mitigating the Risk of Test Failure

CHALLENGES

More Comprehensive Risk Control of Supplier Selection

LESSONS LEARNED

- Good Internal Teamwork
- Effective and Efficient Negotiating Skills.
- The Project Manager's Role as a BRIDGE





KEY TAKEAWAYS





Decision - making



Resource Management:

- Simulation --> The first three stages were done well, as can be seen from the total spend and curve.
- Real life --> Consider personnel flow from a more detailed perspective.

Communication:

- Simulation --> Manager as a bridge with other teams and portfolio.
- Real life --> Cross-departmental collaboration.

Organisational Structure:

- Simulation --> Lack of clear task division.
- Real life --> Established processes.

Decision-making:

- Simulation --> Better analysis needed when selecting suppliers (M311 & P214).
- Real life --> Conduct market research taking into account the country, region, and company culture.

PORTFOLIO RESULTS



PORTOLIO CONTRACT

£4,100,00



£ 1,100,000



£ 1,050,000



£ 900,000



£1,050,000

PORTFOLIO PROFIT

£481,698



£ 269,653



£ 194,446.92



£ 21,352.21



£-3,754.32

TOTAL SPEND

£3,618,302



£ 830,346.63



£ 855,553.08



£ 878,647.79

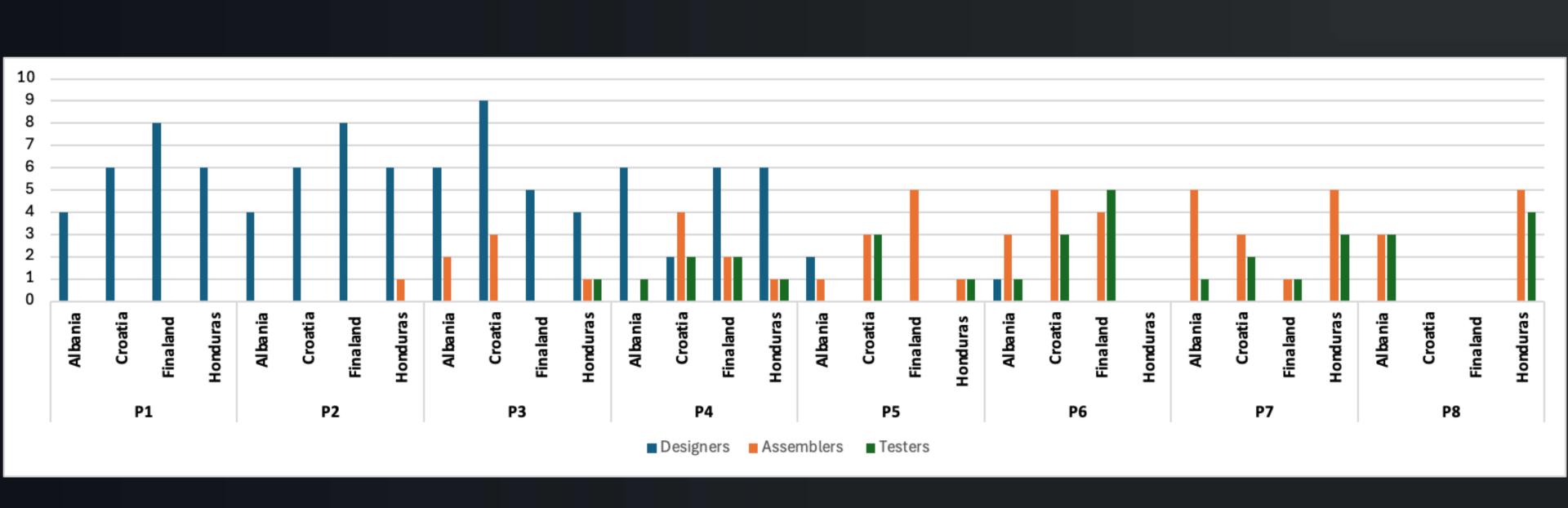


£1,053,754.32





PORTFOLIO RESOURCE ANALYSIS







PORTFOLIO KEY TAKEAWAYS





- Good prioritisation of projects at the portfolio level, however lack of consideration for resource allocation to lower priority projects
 (i.e. Albania).
- 2. Inconsistent choice of suppliers and manufacturers across all projects maintain consistency for future projects.
- 3. Clear communication plans and emphasis on collaboration is essential to project performance.

S

Strengths

- Clear governance framework.
- Detailed risk management identification and mitigation plans.
- Clear portfolio strategy and objectives established early on.



- Misalignment between project leaders narrow view of portfolio.
- Lower priority projects underperformed
- Project overlaps, limiting availability of resources.



- Reallocation of unused resources from other projects
- Learning from past periods mistakes to optimize future decision-making



- Unforeseen changes by external suppliers and manufacturers.
- Conflicts between team members over decisions.





THANK YOU FOR LISTENING

We welcome any questions.

