Swansea Bay City Deal Construction impact assessment summary report



Date	July 2023
Version	V9.0

Construction Impact Assessment Summary Report

1.0 Introduction

The purpose of the combined risk/issues assessment and impact assessment is to highlight and quantify the specific risks/issues currently being experienced throughout the construction industry. SBCD Programme Board and Joint Committee have requested that all programmes and projects assess their status and ongoing monitoring with regards the potential impact these construction challenges will have on the successful delivery of the portfolio and the constituent programmes and projects.

2.0 Returns

As of 10th July 2023 following multiple discussions and requests for completion of the SBCD construction impact assessment, below is the status of returns.

Programme/Project	Status of Return		
Swansea Waterfront	Complete – No Change		
Swansea Campuses	Complete - No change		
SILCG	Complete – No Change		
Skills and Talent	Nil return - not currently a direct issue		
Yr Egin Phase 2	Nil return - current review of delivery strategy and strategic alignment will		
	complete within next few months once strategy complete and approved		
Pentre Awel	Complete - No change		
PDM	Complete - No change		
Digital infrastructure	Nil return - on-going BC updates will complete within next few months		
	once BC updates complete		
HAPS	Complete - No change		

3.0 Construction impact assessment (CIA) Requirements

The CIA has been developed with 9 key questions listed below, whilst providing projects the opportunity to highlight specific risks or issues under question 10:

		Identify as Risk or Issue
	People	
1	Decreased available labour and/or suitable subcontractors and suppliers	
2	Main contractor delivery/management team - skills and capacity issues in terms of project delivery	
	Materials	
3	Lack of availability of construction materials	
4	Quality of materials (due to lack of stock of preferred option)	
	<u>Finance</u>	
5	Rising construction costs results in exceeding/increasing programme / project budget	
6	Contractor / subcontractor / supplier going bankrupt/experiencing financial difficulty	
	Timelines	
7	Delays in project programme due to traditional infrastructure project factors such as ground/weather/construction site issues etc	

8	delay in obtaining relevant construction related / operational approvals	
	Policy/political	
9	revised industry/governmental statutory & mandatory requirements - including technological/policy/political advancements since initial planning phases	
	<u>Other</u>	
10	Please highlight any other risks/issues in relation to construction not highlighted above	

These questions are scored across 8 fields of potential impact of low/medium/high (probability x impact). The fields of impact are:

Scope and key objectives	Targets	Timescales	Reputation if project fails to deliver		Project costs	Procurement	Staff resourcing
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Once completed the author must then identify mitigations that are/will be put in place along with any resource requirements in enacting these mitigations.

No Change

4.0 Summary of Risks identified in returns

Risks	lmpact Field	Scope	Targets	Time	Reputation	Stakeholder/ Partnerships	Proj. Costs	Procurement	Resources
Red		1	0	7	0	0	4	0	0
Amber		11	20	19	20	12	23	18	5
Green		35	27	21	27	35	20	29	42

5.0 Quantification of impact

Once known the impact of these risks becoming issues will likely result in a change, the CIA has been developed so that all quantification links to the 5 categories of change derived in the SBCD change procedures, namely:

- Financial/costs
- Timescales
- Quality
- Programme and/or project benefits are impacted
- Portfolio benefits are impacted

6.0 Assessment of Increasing Construction Costs Paper

- **6.1** In late 2022 the POMO set out to identify and forecast the impact of increasing construction cost on the SBCD.
- **6.2** The result was the creation of a Paper titled Assessment of increasing construction costs.
- **6.3** The current version (V6) was presented to programme board in November 2022, outlining a potential £31m funding gap across the SBCD portfolio.

7.0 Assumptions made in forecasting the impact on the Portfolio.

7.1 Current estimates (Aug 2022) have been provided by projects, these have been identified where current tender prices have been provided. Cost inflationary estimates have been used where projects are pretender.

- 7.2 Inflation rates have been applied to demonstrate projected estimation figures. Building Cost Information Service (bcis.co.uk) indices were used to calculate projected estimations for future years (2023/24 3.2%, 2024/25 3.9%). These indices are industry specific and were deemed most appropriate to apply.
- **7.3** Inflationary rates are estimated and where Building Cost Information Service indices have been used these by their nature do not account for volatile or unexpected adjustments.
- **7.4** All forecasting within this report is only current on the day of writing, given the uncertainty and volatility previously discussed all future construction costs will vary from the forecast below and may potentially increase further prior to contract award or during delivery.
- **7.5** HAPS and Skills and Talent have been omitted from assessment due to the specific nature of their delivery.

8.0 Portfolio Review/status

- **8.1** Currently the portfolio is demonstrating a £31m increase in construction costs. These costs are then expected to be managed by Local Authorities and Lead partners, cost of which are outside the original budget allocations.
- **8.2** The current estimation (August/November 2022) has been derived using actual costs, current tender pricing and cost estimation. These are based on actual and anticipated delivery timelines i.e. build of infrastructure.
- **8.3** Future projections have been derived utilising Building Cost Information Service indices.
- **8.4** Future zones/phases in respect of the life science projects (Pentre Awel and Campuses) have been omitted as SBCD funding is not directly utilised to develop these and due to their nature, a reliable estimate is unobtainable at present.
- **8.5** The following tables describe the current situation (August-November 2022) and any mitigations with potential consequences



Construction Cost Assessment

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	Total	397,314,264	421,612,952	- 24,298,688	

Programme /	Shortfall	Mitigating Actions	Action	Likely Impact of Mitigation
Project			status	
Campuses	£1,948,517	Explore further funding opportunities	Potential	Significant decrease on scope could affect available
		Reduction of scope i.e. smaller footprint		office space and associated income
Swansea Waterfront	£3m (est.	Fixed price contracts with tier 1 contractor	Actual	Possible impact on the subcontractors working on this
a) Digital District &	between			scheme, many of which will be local firms.
Digital Village	£2-3m)			
Swansea Waterfront	£6,420,918	Value engineer project delivery model.	Actual	 Change to refurbishment (rather than new build)
b) Innovation Matrix		Assess viability of alternative funding sources.		model for Innovation Precinct (likely).
and Precinct		Reduce volume of infrastructure.	Actual	Potential reduction in current benefits projections
		• Potential change of delivery mechanism for Innovation		Change in funding arrangements and amounts for
		Precinct to better suit the economic/market	Potential	both projects.
		environment as well as to take advantage of any	Potential	• Collaborative approach likely to be developed with
		partnership opportunities.		key private/public sector partners.
Yr Egin 2	£2,655,219	Value engineer infrastructure	Potential	Change of delivery model, potentially leading to
		Secure further funding	Potential	lower capital spend.
		Reduce volume of infrastructure	Potential	 Potential change to overall project outcomes and
		• Change phase 2 to align to current regional demands.	Potential	benefits through reduced volume of infrastructure.
Pentre Awel	£7m	Value engineering exercise undertaken.	Actual	Manageable and appropriate changes to the building
		Changes to materiality and some omissions	Actual	design and associated infrastructure.
		undertaken.		Within the City Deal demise:
		• Reduction of building area by 750 sqm.	Actual	 Reduced space to deliver education, skills and
		• Local authority to invest further capital into the project.	Actual	training activities
		Increased use of digital and remote delivery for		 Some reduction in business area. Mitigatable via
		education and training, health and	Actual	Zone 3 business expansion centre
		research/innovation.		 Removed conferencing facility
				Research, health and innovation spaces have been
				maintained

SILCG	£7,342,235	 Review accordingly and see what can be delivered at current rates within the previously agreed budget potentially doing less for more (cost). Look to obtain further funding. 	Potential	Nil response in relation to previously highlighted AMPF shortfall of circa £4.395m Nil response in relation to BTC shortfall £383k
		5	Potential	

		 For SWITCH, the overall budget for the project is £20M split into £15M build and £5M for specialist equipment. If projected build costs are >£15M then there is a £1M buffer available from the specialist equipment budget to utilise to offset cost increases 	Potential	Less funds available for specialist equipment (SWITCH)
Digital Infrastructure	£1,597,114	 Continue to monitor the situation and engage with fibre and mobile industry to better understand the situation. Continue to work with the private sector, encouraging and facilitating their investment in our region. Helping to ensure the private sector goes as far as possible with their investment. Seek to secure more public funding towards the regions needs and ambitions for fibre and mobile infrastructure. If necessary, reduce our delivery scope to fit the budget i.e. less infrastructure deployed for the funding we have available. Still relatively confident we will deliver on the key investment objectives of the programme. 	Actual Actual Actual Actual	To be confirmed

PDM	£4,285,389	•	Competitive tenders and further review of Best and	Actual	The 4 bullet points get us to the Outputs as defined
			Final with additional scrutiny.		within the Final business case and on track to get to the
		•	Innovation in designs to deliver outcomes and outputs	Actual	outcomes.
			at less cost which has removed an additional £10m		
			from the current estimate above. I.E without this the		The potential Shortfall is still circa £4.3m as above and
			forecast would have been circa £55m.		we are reviewing future phases over 2023 to see where
		٠	Innovative trading and phasing within overall		we can apply more of the points to potentially close this
			programme to deliver the individual phased outputs	Actual	gap.
			and outcomes.		
		•	Additional funding sought with WEFO and secured		
			partial help.	Actual	

9 Conclusion/recommendations

9.1 Areas of High concern

There are currently 3 areas of high concern, these being:

- Scope
- Time
- Proj. costs

All of these areas will be continually monitored and over time as any issues arise along with associated change requirements, change notifications and change requests will be submitted to the PoMO and reported/escalated accordingly to stakeholders as per the SBCD change procedures.

9.2 Areas of Medium concern

There are currently 3 areas of medium concern, these being:

- Delivery of targets
- Potential reputational damage
- Project costs
- 9.3 As projects and programmes develop, all areas of concern will continually be monitored through the construction impact assessment, to ensure that all change is reported, recorded, escalated and approved appropriately, any mitigations required are implemented and the overall success of outcomes, outputs and impacts are not affected.
- 9.4 The funding gap identified is based on inflationary pressures and rising construction costs with a current estimated funding gap of £31.2m. This gap is based on the anticipated or actual difference in costs from approved outline business case to date (Aug-2022).
- 9.5 Gleeds Autumn review recommends that "As the challenging backdrop persists, it remains important to make projects attractive to the supply chain to obtain the best prices. Mitigation measures seen include:
 - Proactive negotiation with preferred main contractor/subcontractors/suppliers to work through risks and issues
 - De-risking of projects as much as possible through surveys and enabling packages
 - Phasing/splitting of large projects to reduce risk via shorter programme length
 - Early orders to secure materials/products to protect the programme and to obtain cost certainty
 - Booking of key resources/teams to secure the best for the project
 - Use of fluctuation clauses, prime cost (PC) sums, provisional sums, index linking of material supply costs, etc.
 - Increased understanding of pipeline and financial standing
 - Consideration of alternatives in case of sourcing difficulties
 - Being open to different suppliers to ensure competition.
- 9.5 While value management is always important, it is particularly so at a time when budgets are under pressure. Regular reviews should be undertaken to look for opportunities and to ensure the best use of available resources.