

Framework Options

A. Service Scoping Options

The summary assessment of the potential Scoping options is as follows:

Potential Service Scoping Options	SC01	SC02
	Business as Usual (BAU) No change to the SWWCC's single permanent CT-Sim Service Model – SWWCC service has poor resilience and is unable to meet South West Wales' populations' CT Radiotherapy planning needs	Provide a more resilient CT-Sim service in the SWWCC, ensuring there is sufficient capacity to meet the future CT Radiotherapy planning needs of South West Wales' population
Spend Objectives:		
1. To increase CT-Sim Capacity and improve Infrastructure Resilience within the SWWCC	X	✓
2. To improve Quality and Safety of Services	X	✓
3. To improve service efficiencies	X	✓
4. To improve service effectiveness	X	✓
5. To improve service economies	X	✓
CSFs:		
1. Strategic fit & Business Needs	X	✓
2. Benefits Optimisation	X	✓
3. Supply side capacity	✓	✓
4. Potential Affordability	✓	✓
5. Potential Achievability	✓	✓
Summary:	discount <i>(retain as public sector comparator)</i>	preferred

Key: X Not Achieved ~ Partially achieved ✓ Fully achieved

The advantages and disadvantages of each of the Service Scoping options are as follows:

<p>SC01 – BAU - No change to the SWWCC’s single permanent CT-Sim Service Model – SWWCC service has poor resilience and is unable to meet South West Wales’ populations’ CT Radiotherapy planning needs</p>
<p>Advantages:</p> <ul style="list-style-type: none"> - No capital implications.
<p>Disadvantages:</p> <ul style="list-style-type: none"> - Having only one modern CT-Sim for treatment planning is a significant service risk - single point of failure & does not meet best practice. - Increase in Time to RT with increasing numbers of patients directly decreasing cancer outcomes and failing to support our meeting national performance metrics – currently, we average approx. 8 days to do all <u>theCT Scan and tumour Outlining</u>, which is a large portion of the 14 day pathway. - Ongoing vulnerability to single point of failure in RT planning pathway - Inability to expand to treat future demand <u>and changing practice</u> for patients requiring RT. - Solution does not achieve improved outcomes.
<p>Conclusion: Discounted (retained as baseline comparator).</p>
<p>SC02 - Provide a more resilient CT-Sim service in the SWWCC, ensuring there is sufficient capacity to meet the future CT Radiotherapy planning needs of South West Wales’ population</p>
<p>Advantages:</p> <ul style="list-style-type: none"> - Eliminates SWWCC’s CT services’ single point of failure risk. - Increases capacity to between 2,700 – 3,500 patients p.a., enabling Health Board to support Lung Cancer Screening, <u>and adaptive Radiotherapy.</u> - Increases capacity to support planned activity minimum 2,700 to maximum 3,500 patients p.a. - Reduces clinical risk by eliminating a single point of failure - Improves the patient experience by providing <u>timely</u> local access to high quality treatment planning - Enhance the SWWCC’s reputation as a regional centre of excellence for cancer services - Provides access to modern infrastructure that complies with best practice - Improve speed of access to CT-Scans - Provides higher quality scans (current older temporary scanner provides limited functionality) - Improves sustainability and safety of the CT-Sim service. - Improves access within the region to high-quality diagnostic and cancer treatment and treatment planning services. - Improves the patient experience. - Solution is supported by clinicians.
<p>Disadvantages:</p> <ul style="list-style-type: none"> - Financial implications.
<p>Conclusion: Agreed as the Preferred Option.</p>

B. Technical / Service Solution Options

The potential Service Solution options in relation to the preferred scope were assessed as follows:

Potential Technical / Service Solution Options	SS01	SS02
	Invest in a permanent second CT-Sim at Singleton Hospital	Invest in a permanent second CT-Sim and AI Software at Singleton Hospital
Spend Objectives:		
1. To increase CT-Sim Capacity and improve Infrastructure Resilience within the SWWCC	✓	✓ ✓
2. To improve Quality and Safety of Services	✓	✓
3. To improve service efficiencies	✓	<u>✓</u> ✓
4. To improve service effectiveness	✓	✓
5. To improve service economies	✓	✓ ✓
CSFs:		
1. Strategic fit & Business Needs	✓	✓ ✓
2. Benefits Optimisation	✓	✓ ✓
3. Supply side capacity	✓	✓
4. Potential Affordability	✓	✓ ✓
5. Potential Achievability	✓	✓ ✓
Summary:	Discount	preferred

Key:	X Not Achieved	~ Partially achieved	✓ Fully achieved
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The advantages and disadvantages of each of the Technical / Service Solution options are as follows:

SS01 - Invest in a permanent second CT-Sim at Singleton Hospital
Advantages: <ul style="list-style-type: none"> - Solution removes the single point of failure risk, providing resilience to the service; increase in capacity would reduce the pathway. - Reduce number of RT target breaches against baseline. - Mitigates loss of unused Linac capacity above baseline. - New technology providing increased opportunities for Research and Clinical Trial participation above baseline.
Disadvantages: <ul style="list-style-type: none"> - Financial implications.
Conclusion: Option was discounted.
SS02 - Invest in a permanent second CT-Sim and AI Software at Singleton Hospital
Advantages: <ul style="list-style-type: none"> - Solution removes the single point of failure risk, providing resilience to the service. - Compared with SS01 this solution would be the most beneficial option in further reducing the patient pathway, increasing CT Capacity and performance. - Utilises scarce clinical and non-medical staff resources more effectively - provide innovative AI software, which will reduce Clinical Oncologist and non-medical staff (Radiotherapy Physics) time spent undertaking Outlining targets and Organs at risk; Improves VfM of Linear Accelerators by providing more timely and reliable pre-planning support. - Optimises RT performance against All Wales Radiotherapy Quality Metrics' including 14-day targets, reducing time to RT rates. - Reduce number of RT target breaches against baseline. - New technology providing increased opportunities for Research and Clinical Trial participation above baseline. - Optimises mitigation of loss of unused Linac capacity above baseline. - Solution is supported by clinicians.
Disadvantages: <ul style="list-style-type: none"> - Financial implications.
Conclusion: Agreed as the Preferred Option.

C) Service Delivery Options

Given this equipment is to be sited within the SWWCC, a directly NHS staffed service and the second CT-Sim will be operated alongside the first scanner, it was agreed that maintaining **NHS staffed delivery solutions** within this critical service area was the most appropriate delivery solution. All other potential service solutions were discounted.

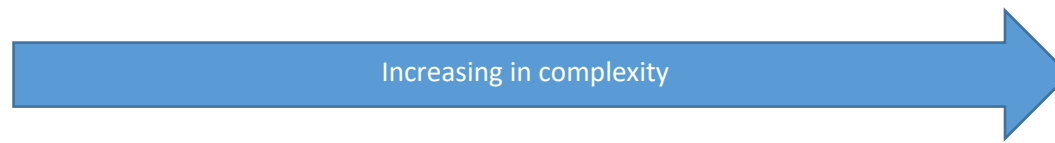
D) Implementation Options

The most practicable solution available was agreed to be a **single phased solution**. All other potential implementation solutions were discounted.

E) Funding Options

The only feasible solution available was agreed to be a **capital funded solution**. All other potential funding solutions were discounted.

F) Long List Options



Framework Options	Business As Usual	Do Minimum	Do Maximum
Service Scope Options	No change to the SWWCC's single permanent CT-Sim Service Model – SWWCC service has poor resilience and is unable to meet South West Wales' populations' CT Radiotherapy planning needs	Provide a more resilient CT-Sim service in the SWWCC, ensuring there is sufficient capacity to meet the future CT Radiotherapy planning needs of South West Wales' population	
	Discount (retained as Baseline Comparator)	Preferred	
Service Solutions Options		Invest in a second permanent CT-Sim at Singleton Hospital	Invest in a second permanent CT-Sim and AI Software at Singleton Hospital
		Discount	Preferred
Implementing Service Solution	A single phased		
Delivery Service Solution	NHS staffed		
Funding Service Solution	Capital funded		

G) Short List Options

Option	Reason for Acceptance or Rejection for further consideration	Finding
<p>Option 1 – Business as Usual: No change to the SWWCC’s single permanent CT-Sim Service Model – SWWCC service has poor resilience and is unable to meet South West Wales’ populations’ CT Radiotherapy planning needs</p>	<p>Fails to deliver required Spend Objectives of CSFs. Fails to improve SWWCC’s CT-Sim services’ resilience and meet forecast demand.</p>	<p>Discounted (retained as Baseline Comparator)</p>
<p>Option 2: Do Minimum: Provide a more resilient CT-Sim service in the SWWCC, ensuring there is sufficient capacity to meet the future CT Radiotherapy planning needs of South West Wales’ population by investing in a permanent second CT-Sim at Singleton Hospital</p>	<p>Delivers most the required Spend Objectives and all of the CSFs. Improves SWWCC’s CT-Sim services’ resilience, meets forecast demand and, reduces RT patients’ pathways</p>	<p>Discounted</p>
<p>Option 3: Do Maximum: Provide a more resilient CT-Sim service in the SWWCC, ensuring there is sufficient capacity to meet the future CT Radiotherapy planning needs of South West Wales’ population by in a permanent second CT-Sim and AI Software at Singleton Hospital</p>	<p>Delivers all of the required Spend Objectives and all of the CSFs. Improves SWWCC’s CT-Sim services’ resilience, meets forecast demand, and further reduces RT patients’ pathways compared with a non-AI Software solution</p>	<p>Preferred</p>