



Procurement Strategy Market Engagement Background Briefing

Civil Engineering Design Consultants
Civil Engineering Contractors
Process Engineering Contractors

Tuesday 15th, Wednesday 16th, Friday 18th September 2020 14:00 – 15:30







Welcome and Overview

Paddy Brow



Purpose of This Engagement



- 1) NI Water and DfI are developing a procurement Strategy for:
 - Whole of LWWP Belfast Strategic Drainage Infrastructure Plan
 - PC21 Large Projects (and first few years of PC27)
- 2) Explain PC21 and LWWP objectives
- 3) Explain emerging procurement strategy to use NI Water frameworks for LWWP and establish a Major Projects Partnering Framework (MPPF)
- 4) Respond to questions asked today
- 5) Seek your views



Panel Presenters



Panel Member	Role
Paddy Brow	Head of LWWP (NI Water)
Mark Mitchell	Head of Performance Management (NI Water)
Dermott McCurdy	Head of Integrated Capital Delivery (NI Water)
Simon Richardson	Director of LWWP (Dfl)
John Gavigan	Partner (ChandlerKBS)
Eamon Scullion	Partner (ChandlerKBS)
Simon Lander	Procurement Specialist (ChandlerKBS)



Agenda



Time	Topic	Panel
14:00 – 14:10	Welcome and overview	Paddy Brow
14:10 – 14:25	PC21 and LWWP Programme Capital Delivery (Funding, Overlap with existing NI Water Frameworks, MPPF Projects)	Mark Mitchell & Dermott McCurdy
14:25 – 14:35	LWWP Belfast Strategic Drainage Infrastructure Plan (An introductory overview)	Simon Richardson
14:35 – 14:55	Preliminary MPPF Procurement Approach	John Gavigan
14:55 – 15:00	Summary and close presentation	Paddy Brow
15:00 – 15:30	Question & Answers	Chaired by Paddy Brow



Event Protocols

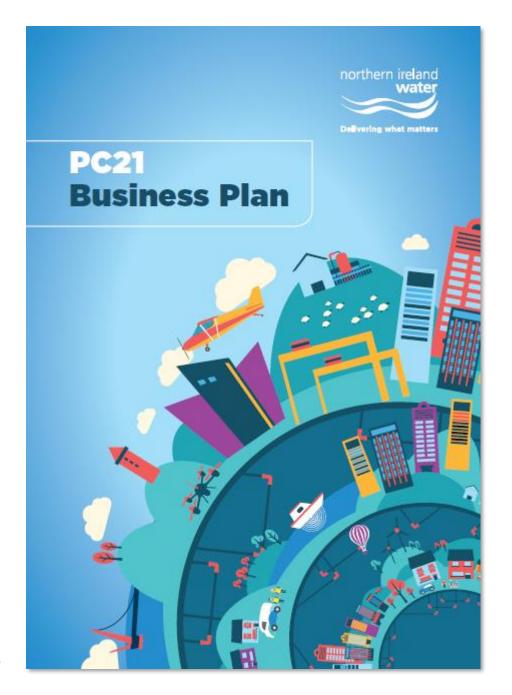


- 1) We will keep to the 1½ hour timeline
- 2) We will address as many questions as possible within the Q&A session of the presentation
- 3) Please use the Slido function to ask any questions. You can access the event by going to:

https://www.sli.do/ Event code: #1033

- 4) The questions will be moderated before being passed to the panel
- 5) Please turn off your cameras and be on mute for the duration of the session

These slides plus a short questionnaire will be issued 5pm on Friday 18th for response by 5pm Wednesday 23rd Sept.



PC21 Plans In Summary

- Covers 6 years from April 2021 to March 2027
- A strong, ambitious plan which continues to improve services for our customers while keeping average bills stable in real terms.
- A step change in capital investment is required to reverse the impact of under-investment in our wastewater assets in particular which is impacting the economy and environment.
- We have aspirations to deliver an efficient Capital Plan that benefits NI Water and our Northern Ireland customers as a whole

Our PC21 Business Plan will begin to deliver against:

Nature Customer Water People **Economy** Protecting and Delivering an Delivering great tasting, Providing a great place enhancing the natural clean and safe water to exceptional customer to work environment experience meet customer need

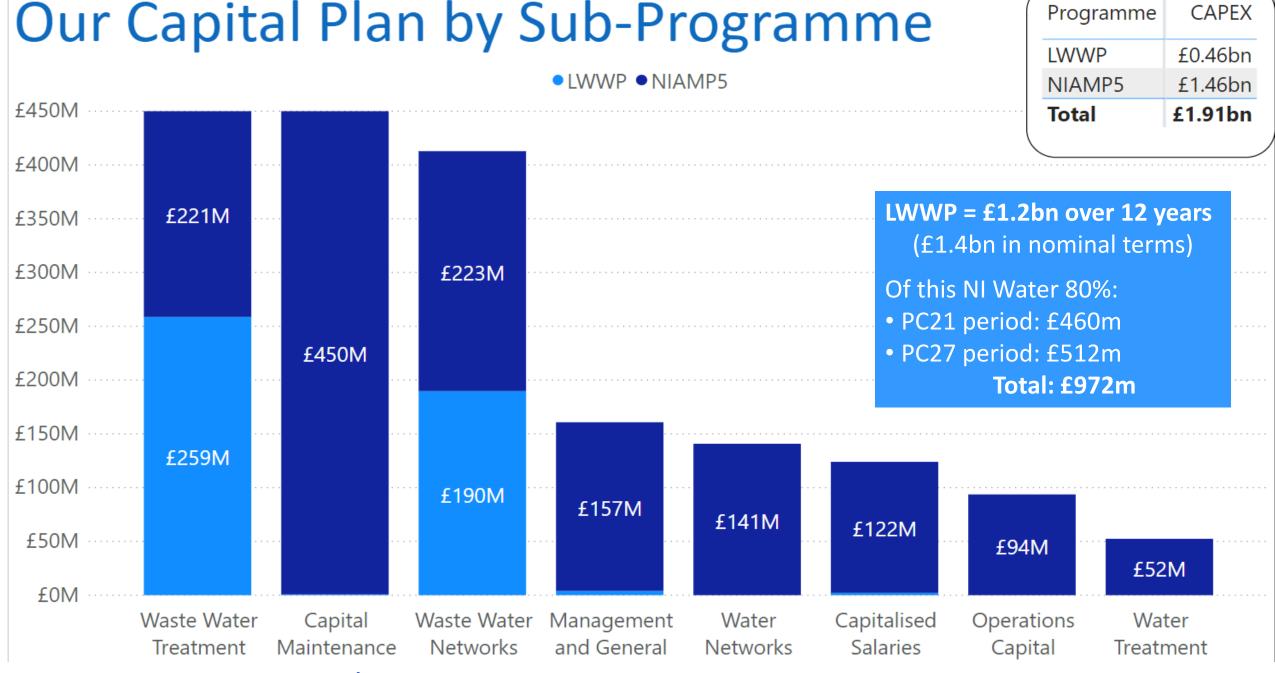
- Unwanted Contacts
- First Point of Contact Resolution
- Net Promoter
 Score

- Water Quality
- Interruptions to Supply (DG3)
- Leakage

- Economic Development Constraints
- Change in Tariff
- Bathing Water Quality

- Pollution Incidents
- Wastewater
 Compliance
- Out of Sewer Flooding (DG5)
- Carbon Footprint

- EmployeeEngagement
- Health & Safety
- Developing our People
- Work with our Communities



Prices in regulatory docs are in 18/19 terms, for most public facing documents we use nominal terms

Carland to Cookstown trunk main



PC21 Water Provision Nominated Outputs

- 668km of water mains rehabilitation
- 14 trunk main schemes to improve resilience and security of supply
- 22 water treatment works upgrades
- 4 service reservoirs / clear water tanks upgraded
- 846 properties removed from low pressure register
- Serviceability maintained





PC21 Sewerage Provision Nominated Outputs

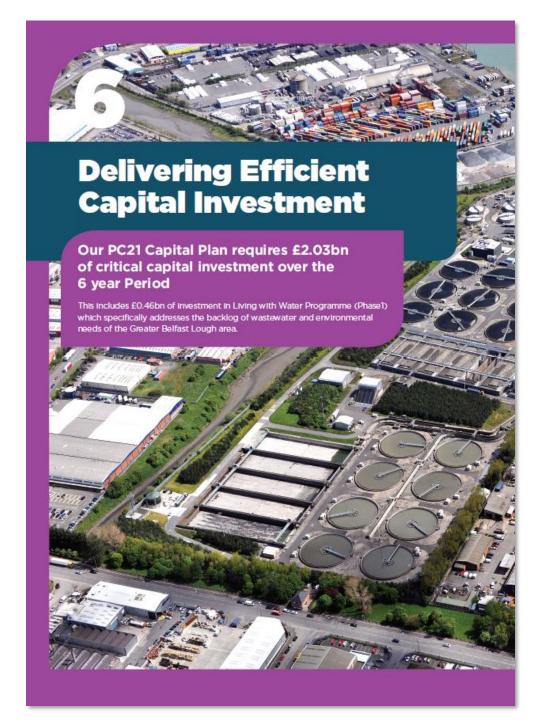
- 61km of renovated and replaced sewers
- 136 unsatisfactory sewer overflows resolved
- 45 large WwTW upgrades
- 36 rural WwTWs upgrades
- 60 properties at risk of internal sewer flooding resolved
- Serviceability maintained





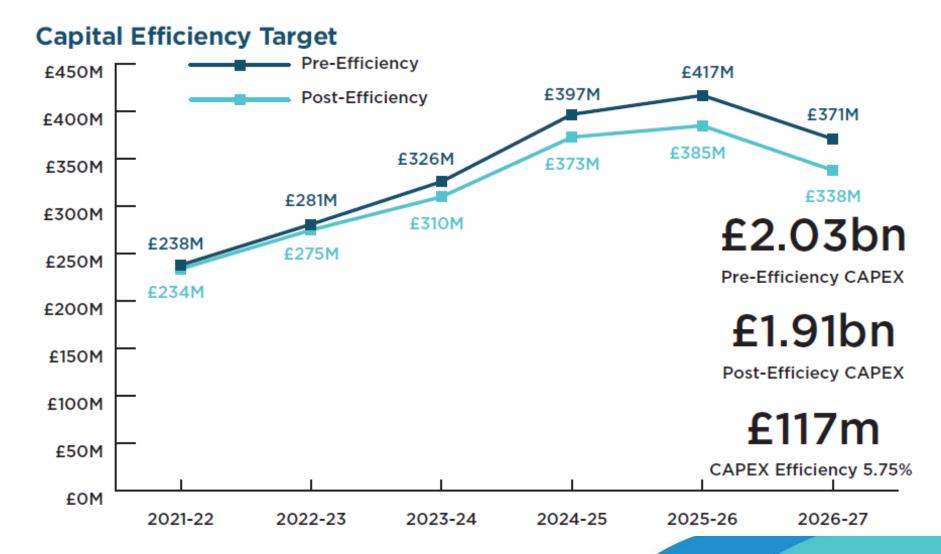
PC21 and LWWP Programme Capital Delivery (Funding, Overlap with existing NI Water Frameworks, MPPF Projects)

Mark Mitchell & Dermott McCurdy



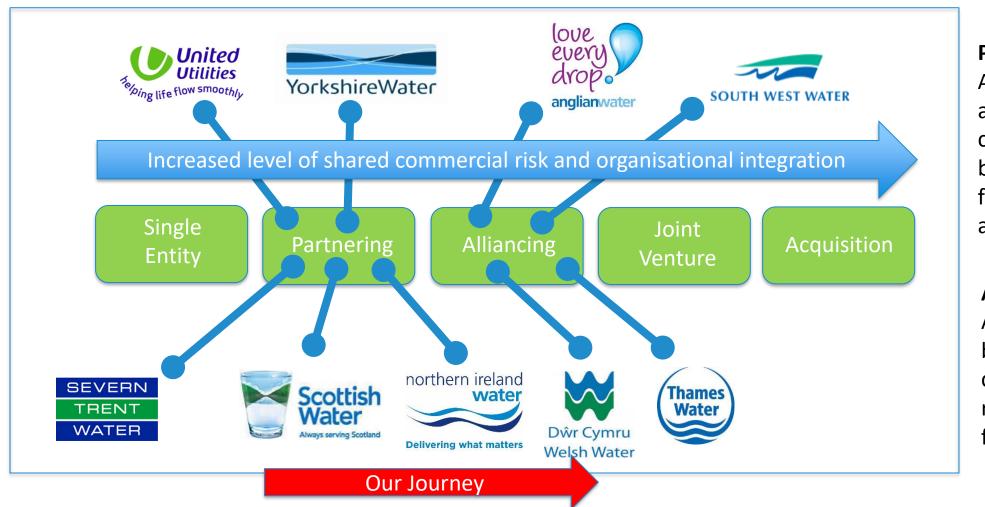
Delivering Efficient Capital Investment

Capital Efficiency



Procurement Strategy Background

All major Water companies in GB are working in a collaborative manner with their capital delivery partners



Partnering

A commitment by client and contractor(s) to collaborate for mutual benefit (underpinned by formal contractual arrangements)

Alliancing

A contractual agreement between client and contractor(s) to share resources, cost and risk for mutual reward

Procurement Strategy – NI Water Integrated Frameworks

Route	Approach	No. of Partners	Risk ownership	
Integrated Partnership 1 Small (up to £1m)	IF105 Lots 1&2 - Framework Partnerships (design and construct) mainly lump sum pricing	4 contactors each	Contractor completing all design activities and retaining design risk	*
Integrated Partnership 2 Medium (up to £10m) High complexity	IF105 Lot 3 Partnering (design & construct) client set target with incentives	6 Contractors	Contractor completing all design activities and retaining design risk	*
Integrated Partnership 3 Large, high complexity (typically over £10m)	Major Project Partnering Framework (MPPF) Partnering (design & construct) with client selected teams working under combined target prices	TBA	TBA – Current proposed model based on a risk sharing model	*
Integrated Partnership 4 Water Mains Rehab	IF101 Partnering (design & construct) client set target with incentives	2 contractors 1-2 consultants	Partner undertaking all design and retaining design risk	*





LWWP Belfast Strategic Drainage Infrastructure Plan An Introductory Overview

Simon Richardson and Paddy Brow



Living With Water Programme



Strategic Drainage Infrastructure Plan

Initiated in 2015 following NI Executive Approval

Output 1: a Strategic Drainage Infrastructure Plan (SDIP) for Greater Belfast to **protect** against flood risk, **enhance** the environment and provide the increased drainage and wastewater treatment capacity necessary to enable the economy to **grow**

Output 2: Prepare a Northern Ireland Integrated Drainage Investment Planning Guide

The programme is focused on developing integrated, catchment based solutions and where possible avoid traditional hard engineered drainage and wastewater solutions involving long-term operating and maintenance costs.

Protect

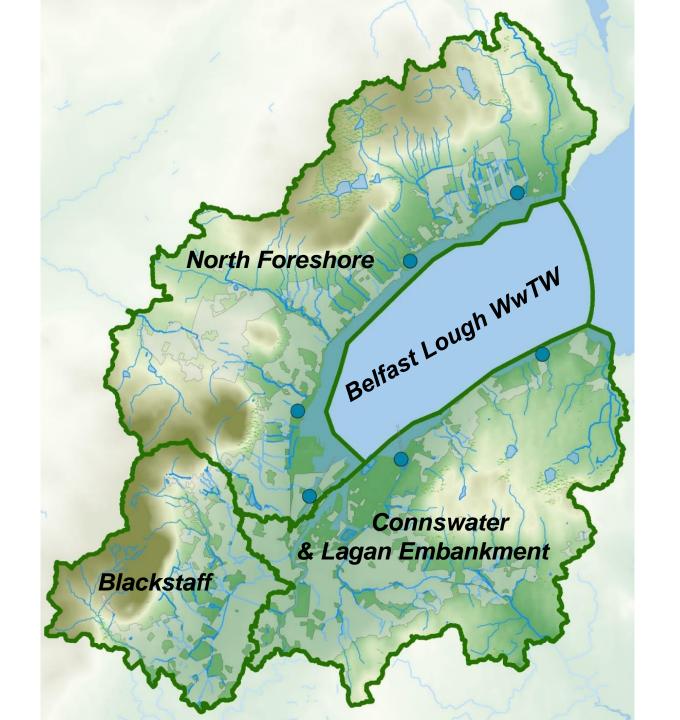
Enhance

Grow



Belfast Strategic Drainage Infrastructure Plan

Plan Area







Flood Risk Management

Protect

Surface Water Flooding - Belfast 2012





Need Identified:

- 1) 2008 Rivers Agency Report 'Living With Rivers & Sea'
- 2) 2012 PEDU Report 'Review of Response to June 2012 Flooding'
- 3) 2015 Rivers Agency 'Flood Risk Management Plans'



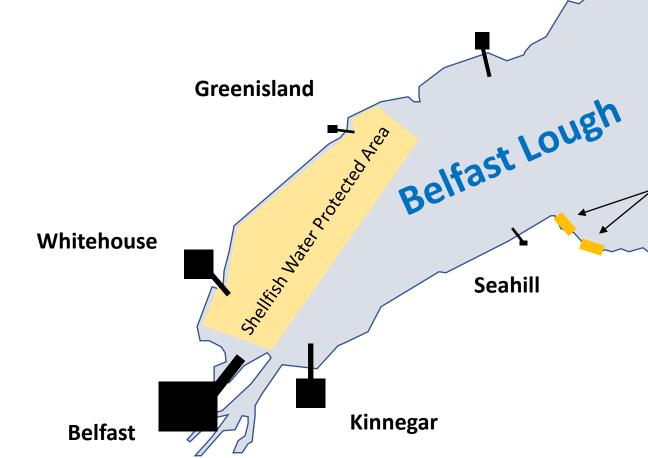
Environmental Improvements

Carrickfergus

Enhance

Designated Bathing Waters:

- Helens Bay
- Crawfordsburn
- Ballyholme





Facilitate Economic Development & Growth

Grow

Every development and new connection increases foul flow & storm water discharges, resulting in:

- Increased risk of flooding, impacting on businesses, impeding economy
- Strain on sewerage network
- Overloading of Belfast WwTW

If WwTW moves into non-compliance with existing consent:

- risk of no new connections
- constraint to economic development
- impact on construction industry
- loss of revenue
- damage to reputation of NI





LWWP Integrated Drainage Investment Planning Solution Cycle



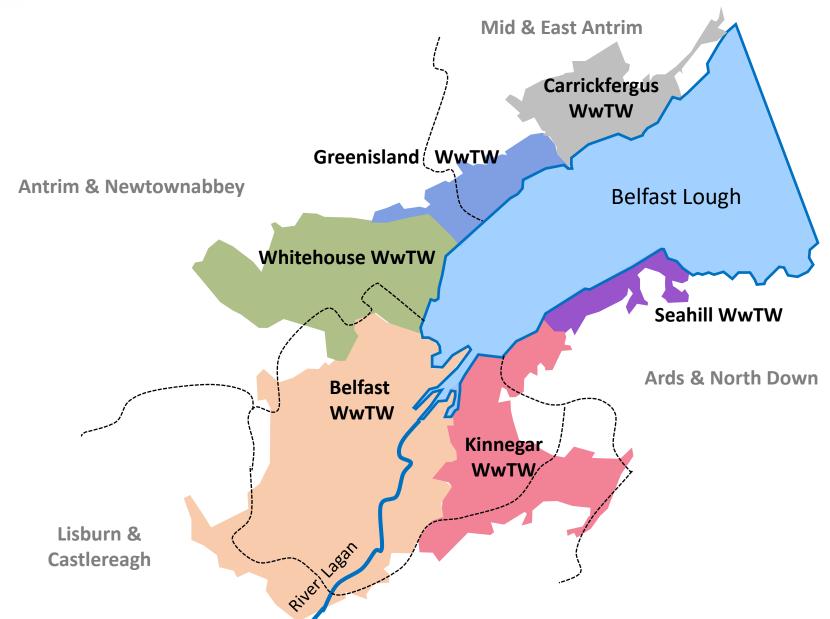


(2) Capacity created within river catchments – Storage volumes available for surface / storm separation.

Water attenuated and infiltrated in the catchment for longer, improving water quality



LWWP Belfast Strategic Drainage Infrastructure Plan Area

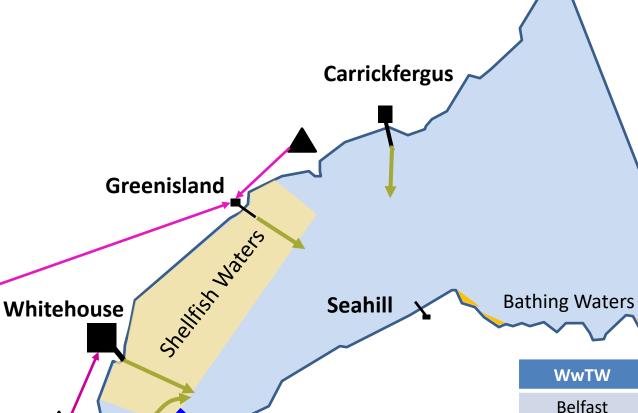






LWWP Outline NI Water Solution Overview





Kinnegar

Sydenham WwPS Replaced

LWWP = £1.2bn over 12 years (£1.4bn in nominal terms)

Of this NI Water 80%:

• PC21 period: £460m

• PC27 period: £512m

Total: £972m

WwTW	Process	Tertiary	Outfall
Belfast	New small footprint BNR*	Yes	New & refurb
Whitehouse	Activated Sludge (Upgrade)	Yes	2 new
Kinnegar	New small footprint BNR*	Yes	Refurb
Carrickfergus	Activated Sludge (Upgrade)	Yes	2 new
Greenisland	New small footprint BNR*	Yes	2 new
Seahill	Activated Sludge (Upgrade)	No	No change

Belfast





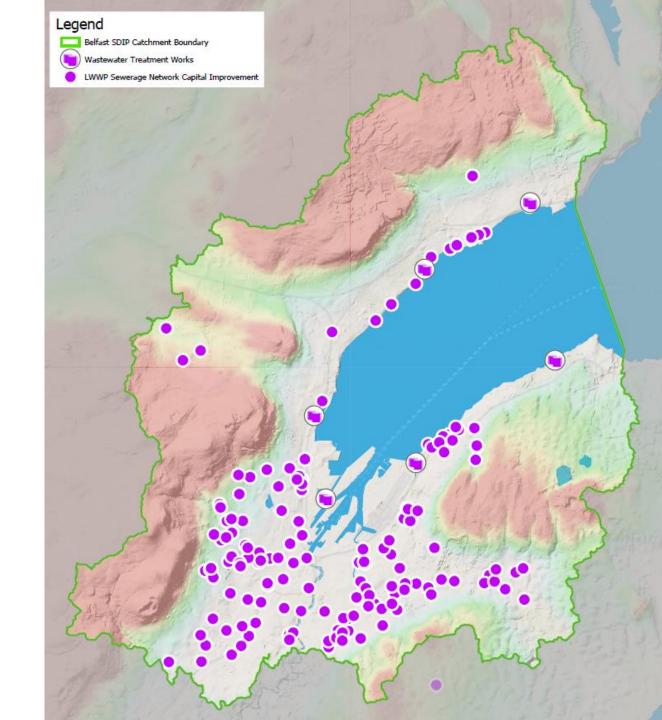
LWWP Belfast SDIP

Locations of Sewerage Network Improvement Projects

Will include all types of work to sewerage networks.

Key projects include:

- Replacement of Sydenham WwPS
- Extension of Belfast Sewers Tunnel by 2.5km to Musgrave Park







Preliminary MPPF Procurement Approach

John Gavigan



Projects Likely to be Delivered Through MPPF



The LWWP and PC21 Large Projects programme comprises large projects with estimated investment (18/19 prices) of circa £817m - £949m. A range of bundling options are viable based upon work type and geography, anticipated range £10m - £127m.

Potential Treatment Works Projects	Spend £m (Est investment) *
Belfast WwTW - Odour Control	10-12
Belfast WwTW - Phase 1 upgrade	120-130
Carrickfergus WwTW	14-17
Greenisland WwTW	28 -33
Whitehouse WwTW	14 -17
Kinnegar WwTW	100-110
Dungannon WwTW	31-33
Newry WwTW	28-33
Larne WwTW	23-27
Dromore WwTW	13 -15
Caugh Hill Water Improvements	13 -15

Potential Networks Projects	Spend £m (Est Investment) *
Belfast Sewers Tunnel Extension	26-30
Belfast DA Upper Falls Boucher CSO	17-20
Sydenham WwPS	26-30
Belfast - Distillery Street CSO WwPS	21-25
Belfast North Queen Street Cultra CSO	19—23
Belfast DA River Terrace CSO DO51	16-20
Belfast Queens Bridge to Kinnegar Transfer WwPS	10-13
Caugh Hill, Carmoney to Stabane Watermain	21-25
Dungannon DAP - Coolhill North WwPS	17-21

Dfl Large Projects	Spend £m (Est Investment)
Miscellaneous Projects	50
NI Water PC27	Spend £m
Large Projects	(Est Investment)

Sea Outfalls	Spend £m (Est Investment)	
Serving 5 WwTW's	250 - 300	
Note: may be delivered via a separate		
procurement		

^{*} All figures are inclusive of all on-costs i.e. client project management, supervision, land, compensation etc. They are all subject to change at any stage.





NI Water Procurement Strategy - Vision

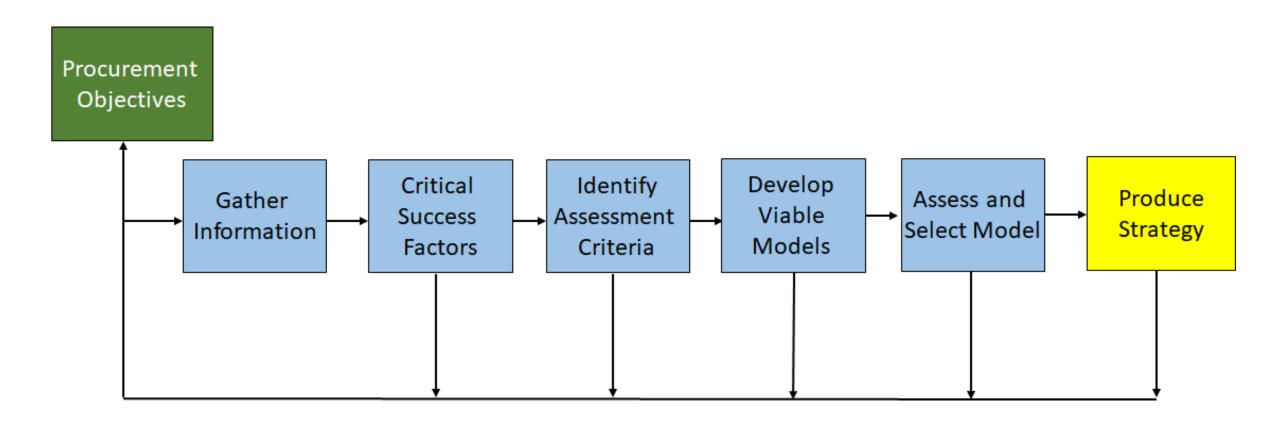
A progressive Procurement Strategy for the LWWP and NI Water's Large Projects that enables efficient delivery of outcomes to underpin sustainable growth whilst leaving a lasting legacy that exceeds stakeholder expectations



Procurement Strategy – Progress



NI Water has taken a structured approach to develop a procurement strategy which will address the future procurements for the LWWP and PC21 large projects. The diagram below details the steps taken in developing the strategy.





Procurement Strategy – Critical Success Factors



NI Water has identified the following Critical Success Factors for this Procurement Strategy. The Critical Success Factors are the desired outcomes and final position against which success is measured.

- a) Safe, resilient, compliant and sustainable.
- b) Flexibility that allows for scaling up and down economically and efficiently.
- c) Long term relationships founded on effective collaboration.
- d) A fully engaged, motivated and aligned supply chain, recognised for its contribution.
- e) Best in class performance and great value for money through integration, innovation and continuous improvement.
- f) An economic boost for Northern Ireland through long term employment, training and development of local people and businesses.
- g) Integrated / shared solutions to deliver long term benefits and reduce disruption to communities.
- h) Key stakeholder confidence and endorsement throughout its life.
- i) High quality assets that are efficient to operate (TOTEX).



MPPF Model Development



Through the process a number of models were considered and assessed. The MPPF was deemed to be the best fit for all parties involved.

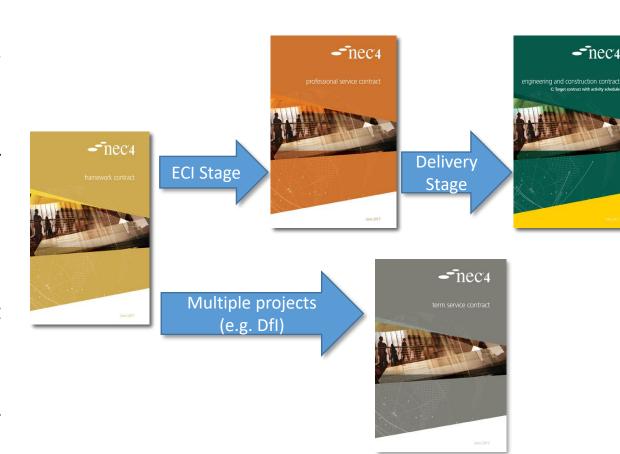
- We identified several different delivery models that varied between standalone contracts to alliancing.
- We tested suitability against the CSF's but also alignment to other NI Water Frameworks.
- The MPPF model identified was the best fit to CSF's.
- The MPPF supports the NI Water journey.
- Suitability for Dfl to access the Framework.



MPPF Preferred Model



- Preferred model will follow a 2-stage process under NEC4 Framework Contract.
- Stage 1 Framework competition to appoint circa 8 -12 discipline specific suppliers (process, civils, civils engineering design).
- Stage 2 Secondary competition to select suppliers for bundles of work. NI Water selects the integrated teams for each contract bundle
- Risk sharing model with incentivisation.
- The default contract option will be Option C Target Price.
- Combined target price model whereby team members are jointly incentivised to work together creating winwin or lose-lose outcomes.
- The Framework will be up to 8 years procured under the Utilities Regulations.

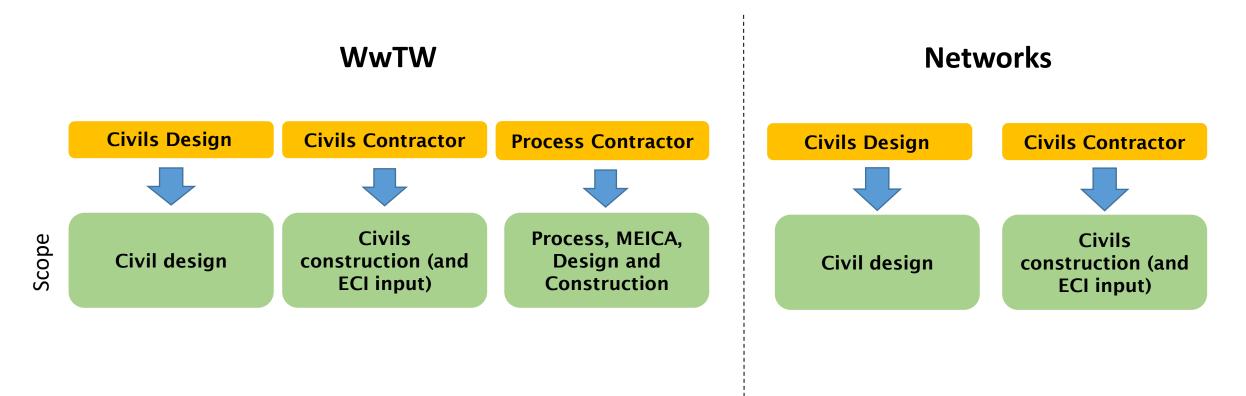




MPPF Discipline Requirements



The below demonstrates the requirements for each of the disciplines under the types of works which will be needed under the MPPF.





MPPF Procurement Stages



Stage 1: Framework Competition (the Primary Competition) 3 x Discipline Specific Lots

9-15 Months to establish Framework

Stage 2: Mini Competition (the Secondary Competition)
All framework suppliers invited to tender, offers in each Lot separately assessed. Highest scoring identified in each Lot.

Typically 2-5 contracts per year

Lot 1: Civils Contractors

1A 1B 1C 1D 1E

2A 2B 2C 2D

Lot 2: Civils Designers

Lot 3: Process Contractors

3A 3B 3C

Lot 1: Civils Contractors

1A

Lot 2: Civils Designers

3A

Lot 3: Process Contractors

Stage 3: ECI Stage and development of Combined Target Price for delivery stage

Stage 4: Capital Works Delivery

Integrated Team

1A 2C 3A

Integrated Team

1A 2C 3A

Note:

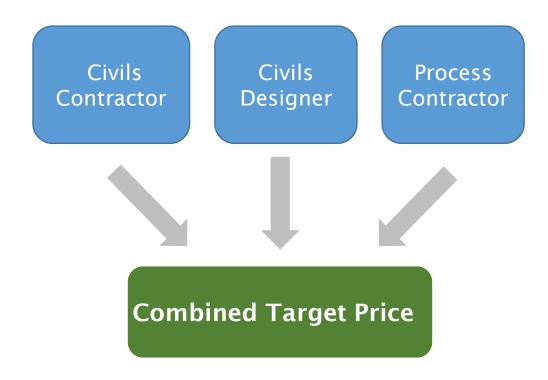
Lot 3 Process
Contractors
may not be
required for a
contract bundle
if networks only



Combined Target Pricing



- Entire Client Scope is agreed by all involved.
- Partners agree with the Client who is best placed to deliver each element (process, civils, civils design). Each partner prices their element.
- Share percentages finalised (based on preagreed parameters) in line with level of risk carried by each partner/Client.
- Each partner's contract includes full Scope and combined target price. This allows the integrated team to swap who does what during delivery to gain efficiencies, and provides risk protection to Client if one partner underperforms or fails.

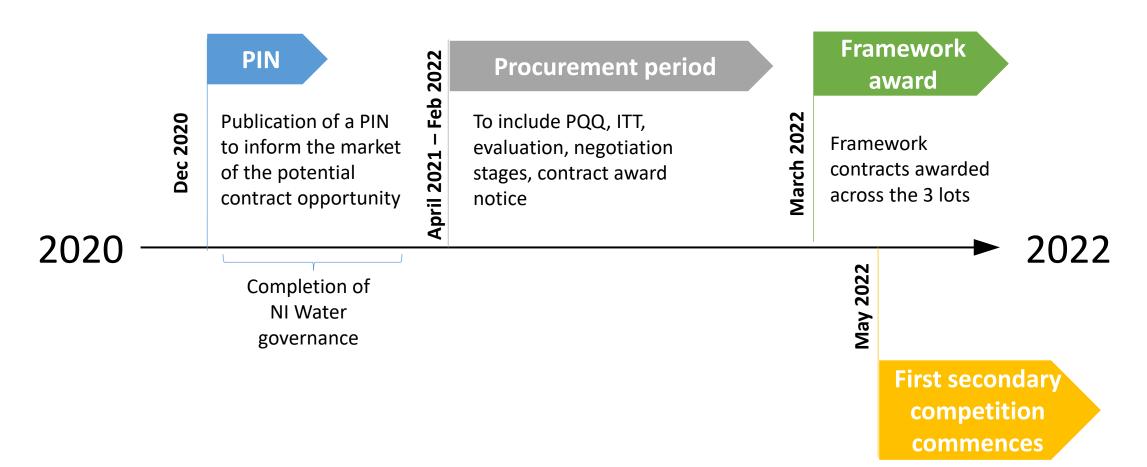




Procurement Timescales



The below provides guidance on the timelines for the primary procurement exercise. These are for guidance only and may be subject to change.







Question & Answers

Chaired by Paddy Brow





Summary and Close Presentation

Paddy Brow