

# NS FRITS Project Work Plan



### List of abbreviations

Del Deliverable

DSA Data Sharing Agreement

HYWP Half Year Work Plan

IA Intermediate Achievement

IMG International Management Group

LB Lead Beneficiary

MFR Monthly Flash Report

NS FRITS North Sea Freight Intelligent Transport Solutions

NSR North Sea Region

PA Partnership Agreement

PUAC People United Against Crime

PWP Project Work Plan
WP Work Package

WPA Work Package Activity
WPL Work Package Leader

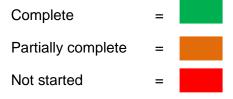
### Introduction

The NS FRITS PWP defines the completion stages for each WP.

WPs, WPAs and project phasing were defined in the NS FRITS project submission and are detailed in Appendix 7 – Additional Project Information.

The first section of the PWP links the NS FRITS deliverables to the WPA.

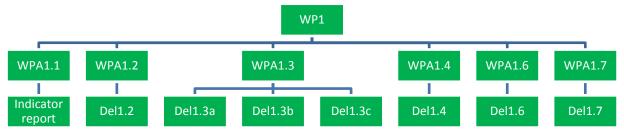
The key below shows the current stage of each WPA:



The second part of the PWP links the WPA to the IA's. IA's were defined in the Interim Evaluation Report 1.

The overall management, analysis, evaluation and successful delivery of the project, on time and within budget

WP1 activities are shown as:



# WPA1.1 – establish, organise and co-ordinate the transnational IMG

Three IMG meetings to be held each year of the project. An Indicator report is sent to the Interreg IVB NSR Secretariat each year documenting the number of IMGs.

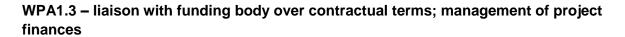


WPA1.1

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# WPA1.2 – produce a project performance framework

Del1.2 is to produce a Performance Management
Framework. All partners submit two HYWPs each year which feed
into the Project Performance Framework. This allows the
WPL1 to monitor future activities.



WPA1.3 is comprised of three deliverables:

Del1.3a - PA

Del1.3a Del1.3b Del1.3c

Del1.3b – Produce interim report for Interreg IVB NSR Secretariat

Del1.3c - Produce final report for Interreg IVB NSR Secretariat

## Del1.3a

PUAC produced PA and the content was agreed by all partners. Each partner signed two PAs, one was submitted to PUAC and the other was kept by the partner organisation.

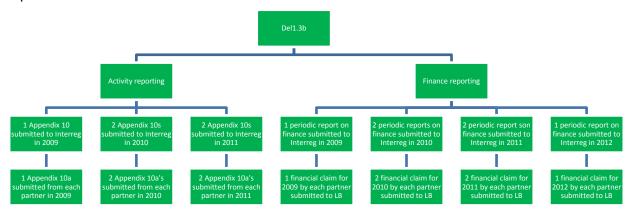


### Del1.3b

Each partner completes a periodic report on activities – partner version (appendix 10a) and submits to the LB. The appendix 10a's are reviewed and used to produce a periodic report on activities (appendix 10).

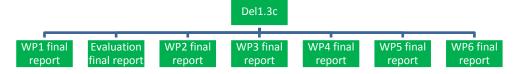
The appendix 10 is submitted to the funding body every six months to provide an update on activities.

Each partner has their expenditure audited and a report is submitted to the LB to coincide with the activity report. The expenditure reports are collated and audited by the Project Controller. The periodic report on finance is produced and submitted alongside the activity report.



### Del1.3c

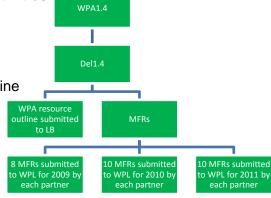
Each WPL will submit a final report summarising the WP at the end of the project. These reports will be collated to form the final report which will be submitted to the Interreg IVB NSR Secretariat.



# WPA1.4 – monitor and review all relevant project reports, activities and decisions against project objectives and performance framework

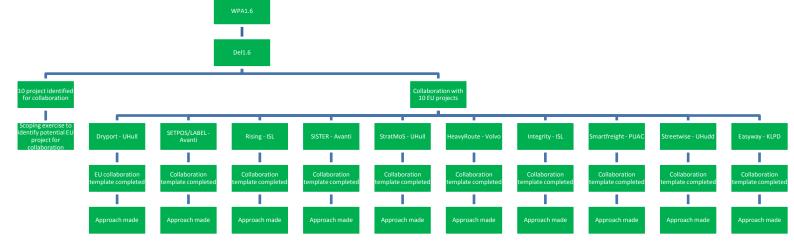
Del1.4 is to produce a project work plan. During project implementation, each partner submitted their WPA resource outline stating the number of man days assigned to each WP.

MFRs are submitted each month to document partner activities. An MFR Overview is produced collating all the MFRs and is circulated to the partnership.



# WPA1.6 – where feasible integrate NS FRITS activities with other projects and programmes with the NSR

Del1.6 is to produce a report on collaborative working with other projects and programmes within the NSR. After a scoping exercise of 48 projects was completed ten projects were identified for collaboration and partners were nominated to lead the collaboration. Partners report back to the WPL1 via collaboration templates and MFRs.

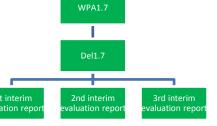


# WPA1.7 – to evaluate the economic and environmental impact of the project for businesses and overall NSR competitiveness

Project evaluation is led by the University of Huddersfield.

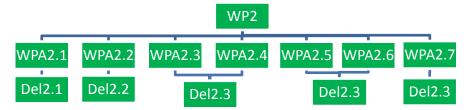
Del1.7 is to produce interim and final project evaluation reports. Each

year an interim report is produced documenting the evaluators' findings and the feedback received from the partners.



Define the technical requirements of an electronic communications and data capture system that can support efficient, safe and secure supply chain management

WP2 activities and deliverables are shown as:



# WPA2.1 – to research and identify a relevant and robust communication platform, including any leading edge developments

Del2.1 is to produce the NS FRITS Technical Concept document identifying the technical issues for NS FRITS to address. The research was split into two categories – leading edge technology and EU projects with the potential for collaboration.

# Del2.1 Technical Concepts 10 projects identified for collaboration Scoping exercise to identify potential EU projects for collaboration WPA2.2 Del2.2 System Bequirements

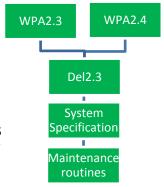
# WPA2.2 – requirement / concept definition including mission, user, operational and system requirements

Del2.2 is to produce the NS FRITS System Requirements document including Mission Requirements and User Requirements. This includes analysis of research on state of the art technology, an overview of the system requirements, use cases and feedback from stakeholders.

WPA2.3 – to recommend a solution for development that is easily updatable in terms of technology, data collection and transmission and capable of integrating with other platforms including intermodal freight handling systems.

# WPA2.4 – to devise and establish the maintenance routines of physical equipment and placements

Del2.3 is to report on the recommendations for the development of NS FRITS including data editing, warehousing and mining, maintenance routines, legal / licensing issues and the capacity for future expansion.



The section of the System Specifications document which satisfies WPA2.3 and WPA2.4 is the recommendations of maintenance routines.

WPA2.5

Del2.3

System Specification

# WPA2.5 – to build in the capacity for additionality / growth / expansion (scalability) as the project develops to enable EU wide operations

### WPA2.6 - to build in the capacity for the internationalisation of data

Del2.3 is to report on the recommendations for the development of NS FRITS including data editing, warehousing and mining, maintenance routines, legal / licensing issues and the capacity for future expansion.

The section of the System Specifications document which satisfies WPA2.5 and WPA2.6 is the capacity for future expansion.

# WPA2.7 – to consider and make recommendations on any legal / licensing issues related to the proposed communications platform

Del2.3 is to report on the recommendations for the development of NS FRITS including data editing, warehousing and mining, maintenance routines, legal / licensing issues and the capacity for future expansion.

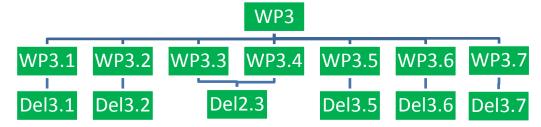
The section of the System Requirements document which satisfies WPA2.7 is Annex C Recommendations of legal and licensing issues.

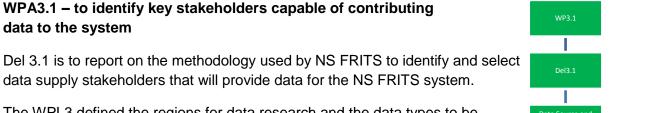


WPA2.6

Identify the type and sources of data to be captured, edited and transmitted, using the NS FRITS communications platform (phase 1 and 2)

WP3 activities are shown as:





The WPL3 defined the regions for data research and the data types to be researched. Additionally a data suppliers approach pack was created to ensure a standardised approach to stakeholders.

# WPA3.2 – to identify applicable data and negotiate data supply and sharing with the originators

Del3.2 system

Del3.2 system

Del3.2 During should

Data Source and Information Providers documenting the process for each data source

Data source approved by IMG source

Meeting between data source and Avanti capabl present source

Del3.2 system

Diving should

Firstly source between a meet source approved by IMG source

Source Source

Source Source

Del3.2 is to report on how data is identified as appropriate for the NS FRITS system and how data supply is negotiated with suppliers.

During the IMG3 meeting the consortium agreed that each data source should be approached by a formal process.

Firstly the needs of the end user should be established and a suitable data source researched to satisfy that need. An initial meeting should be held between the approaching NS FRITS partner and the data source followed by a meeting between Avanti and the technical representative of the data source.

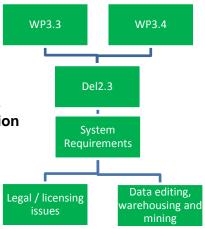
Once it has been established that the data source is suitable, willing and capable of supplying data in a desired format then the data source is presented to the IMG for approval. All decisions are documented in the Data Source and Information Providers document.

This is an ongoing process to supply the system with suitable data.

WPA3.3 – to develop a system for the editing and maintenance of data for efficient use including prioritising and grouping data for transmission

WPA3.4 – to devise a robust, transnational system for data warehousing and mining and to ensure compliance with data capture/sharing and other national and transnational legislation

Del2.3 is to report on the recommendations for the development of NS FRITS including data editing, warehousing and mining, maintenance routines, legal / licensing issues and the capacity for future expansion.



The section of the System Requirements document which satisfies WPA3.3 and WPA3.4 is the recommendations of data editing, warehousing and mining and legal and licensing issues.

# WPA3.5 – to consider and make recommendations on any legal and licensing issues relating to data sources

Del3.5 is to document the legal / licensing issues and recommended solutions relating to data sources and data types to be included in NS FRITS.

The template for the DSA was produced and approved by the WPL3.

Each data source acquired for the NS FRITS system will complete the DSA ensuring all future issues regarding legal and licensing matters can be resolved.

All DSA's produced will be flexible to suit all parties involved and will be documented in the Data Source and Information Providers document.

# WPA3.6 – to study and analyse how data capture/transmission can encourage innovation and increase use of ICT within the NSR

Del3.6 is to produce a report on how NS FRITS will encourage innovation and increase the use of ICT with the NSR.

Del5.1 is to produce a report justifying further investment in NS FRITS taking into consideration operational and maintenance costs.

The outputs from Del3.6 and Del5.1 will feed into the NS FRITS business plan to be produced at the end of the project.

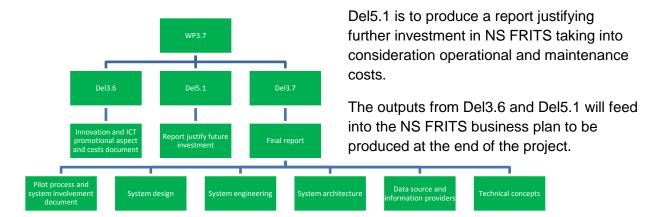


Agree NS FRITS DSA

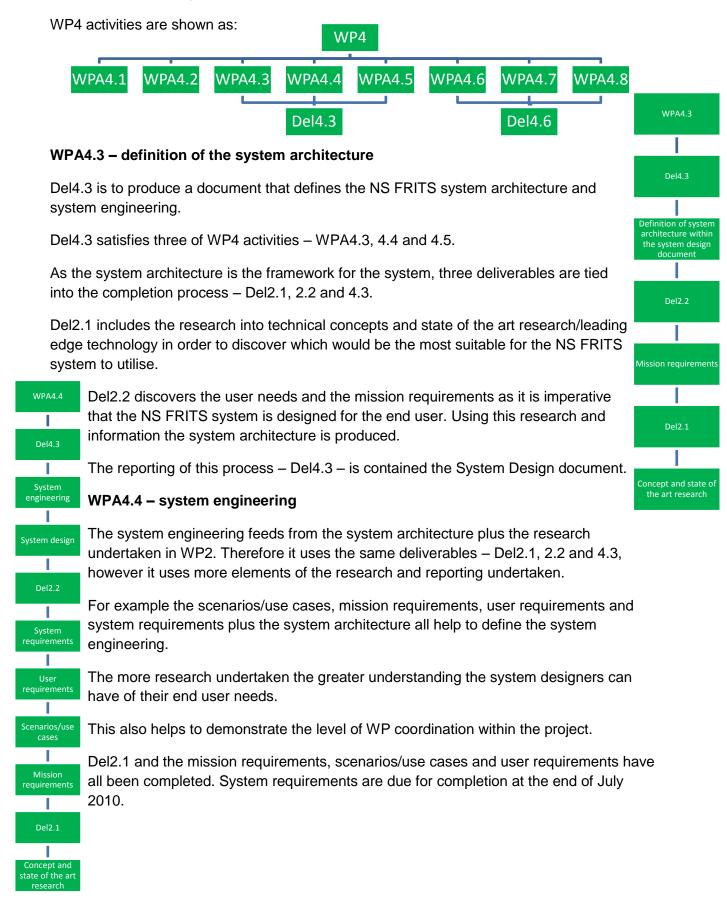
# WPA3.7 – to make recommendations in the NS FRITS final report about likely permanent application costs

Del3.7 is to contribute to the NS FRITS final report including an indication of likely application costs of the NS FRITS system.

Del3.6 is to produce a report on how NS FRITS will encourage innovation and increase the use of ICT with the NSR.



To design and implement the ITS identified and recommended in WP2 and 3



# WPA4.5 – design and development of the system with continuous development feedback

The design and development of the system utilises the research and the architecture and feeds the continual development into the system design document.

Del4.6 is to document ongoing system developments including the results of laboratory testing and pilot results in collaboration with WP5 leader.

### WPA4.6 - laboratory tests of the system

The NS FRITS system will be tested, internally by NS FRITS partners to ensure it is suitable for the external pilots.



### WPA4.7 - Pilot testing / development

Following the internal / laboratory testing, the system will be piloted with external stakeholders. The system will continue to be developed throughout the pilot phase.

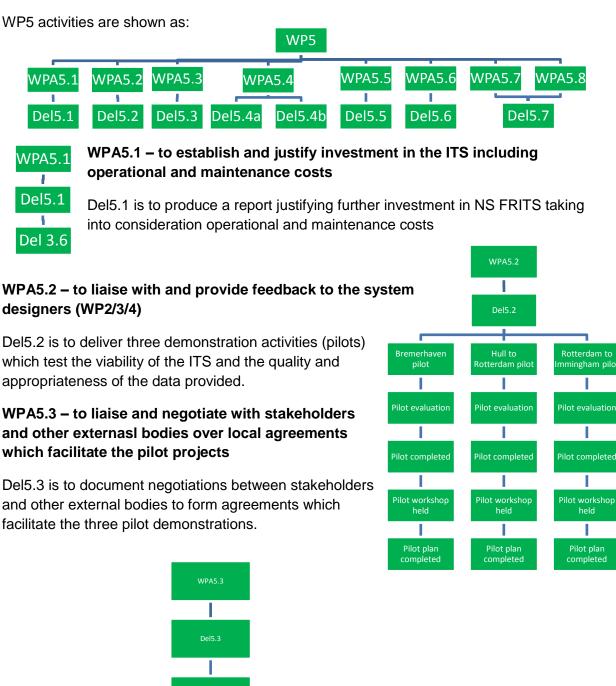


### WPA4.8 – compilation and review of test / pilot results

The results of the system development during the pilot and testing phase will be compile din the system design document which will become the WP4 final report (Del4.8).



WP5
To implement and execute three Pilot Projects at key strategic locations in the NSR



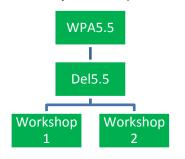
Meeting notes

# WPA5.4 – to document the processes and systems involved in the three pilot projects for inclusion in the final NS FRITS report

Del5.4a is to produce a report on the long term viability and sustainability of the proposed ITS solutions.



Del5.4b is to document the processes and systems involved in the delivery of three pilots for inclusion in the final report.



WPA5.5 – to organise and manage meetings, seminars specific to the pilot projects location(s)

Del5.5 is to coordinate two workshops in preparation for the three pilot demonstrations.

# WPA5.6 – to identify and resolve all technological challenges in order to provide a robust system



Del5.6 is to document how emerging technological challenges were identified and resolved to ensure NS FRITS is a robust system, fit for purpose and future expansion.



Del5.7 is to document how NS FRITS interfaces and compares with other ITS solutions and contributes to other projects that will support future EU roll-out. Del5.7 influences WPA5.7 and 5.8.

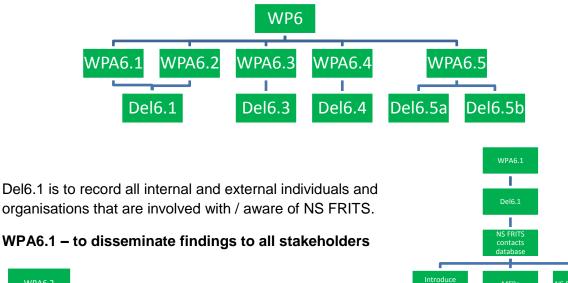
WPA5.7 – to interface with other ITS solutions and contribute to other Interreg / EU RTD / National programmes and objectives

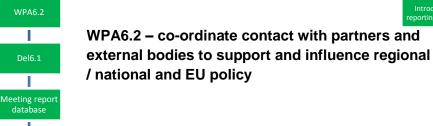
WPA5.8 – to compare the NS FRITS solution against other ITS systems for compatibility and data sharing for future EU rollout

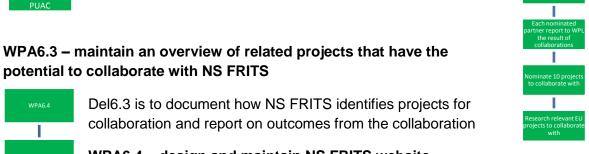


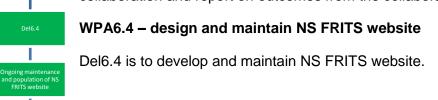
To manage and co-ordinate the dissemination, communication and publicity activities in collaboration with partners, end users and stakeholders to support and influence regional, national and EU policies

WP6 activities are as shown:









## WPA6.5 - produce newsletters, coordinate press releases and other publicity events

Del6.5a is to co-ordinate press releases, TV and radio appearances, newsletters, seminars, and conference in accordance with project indicators.

Del6.5b is to produce interim and a final evaluation of the Communications and Publicity strategy



### Intermediate achievements (IAs)

The IAs identified below are all taken from the NS FRITS application. These can be described as the measurable outputs and outcomes of NS FRITS, and the mechanisms that can be used to demonstrate how NS FRITS can achieve its ultimate objectives. The intermediate objectives identified are:

- 1. To utilise the most relevant Information Communication Technology (ICT) for the freight supply chain
- To establish an ICT solution that includes telecommunications and the increasing range of sensory, location, security identification and data capture leading edge technologies within the supply chain, which will transmit data at ports and other critical transport corridor points
- 3. To develop a multi-lingual electronic communications and data capture system into an intelligent transport solution (ITS)
- 4. Identify and prioritise the nature of the information that is to be transmitted considering quality, quantity and format of the data
- 5. To place the ITS at strategic positions in the transport network
- 6. To transmit and receive data in a series of languages to lone workers as they travel through NSR
- 7. To pilot and develop information hubs to test if they
  - a. Improve the liaison between multimodal and multinational operators in the NSR
  - b. Improve traffic flow and dispersal throughout the NSR
  - c. Improve predictability for the 'just in time' movement of goods
  - d. Improve driver safety and reduce road casualties.
  - e. Transmit and receive data in a series of languages to lone workers as they travel through NSR
  - f. Provide live up to date information (traffic flow, congestion, safety and security)
  - g. Provide interoperability and integration between transnational and secondary networks providing visibility across supply chains, sharing data, so that all elements of the supply chain benefit
  - h. Reduce economic and social risks that exist in the supply chain, specifically related to losses, late deliveries, security, road safety and driver conditions of service
- 8. Build functionality and capacity into the system to enable compatibility for additional services to be introduced in the future to meet the changing needs of logistics operators and the growing challenges within the freight supply chain throughout Europe
- 9. For the public and private sector to work in partnership to develop, populate, administer and benefit from the system
  - a. This will enable the wider adoption and use of ICT applications to enable NSR to further develop efficient and effective logistics solutions.
  - b. This also requires a sustainable cross-sectoral partnership for the collection and transmission of relevant data that will be used to inform the freight supply chain and other relevant agencies
- 10. To learn from, add value, support and co-operate with other EU projects

# The IAs are linked to the WPA's

WPA	Intermediate achievements										
	1	2	3	4	5	6	7	8	9	10	Total
1.1									Χ		1
1.2									Χ		1
1.3									Χ		1
1.4									Х		1
1.6										Χ	1
1.7									Χ		1
2.1	Χ										1
2.2	Χ										1
2.3	Χ	Х	Х					Х			4
2.4			Χ					Х			1
2.5								Х			1
2.6			Χ					Х			2
2.7		Х						Х			2
3.1				Χ							1
3.2				Χ							1
3.3				Χ							1
3.4				Χ							1
3.5				Х				Х			2
3.6	Χ	Х						Х			3
3.7								Х			1
4.1		Х	Х						Χ		3
4.2		Х		Χ				Х	Χ	Χ	5
4.3	Χ	Χ	Х		Х	Χ	Χ	Х			7
4.4	Χ	Х	Χ		Х	Χ	Х	Х			7
4.5	Χ	Х	Х		Х	Х	Х	Х			7
4.6		Х	Χ		Х	Χ	Х	Х			6
4.7		Х	Х	Х	Х	Χ	Х	Х			7
4.8		Х	Х	Х	Х	Χ	Х	Х			7
5.1	Χ			Х	Х		Х	Х	Χ		6
5.2	Χ	Х	Х	Х		Χ	Х	Х			7
5.3					Х		Х		Χ	Х	4
5.4	Χ	Х	Х	Х	Х	Х	Х	Х			8
5.5					Х				Χ		2
5.6	Χ	Х	Х	Х	Х	Χ	Х	Х			8
5.7	Χ	Х			Х		Х	Х	Χ	Х	7
5.8	Χ	Х	Х		Х		Х	Х	Χ	Х	8
6.1				Х			Х		Х	Х	4
6.2								Х	Х		2
6.3									Х	Х	2
6.4									Х		1
6.5									Х		1
Total	13	16	14	13	13	9	14	22	17	7	138