

ENGINEERING RECOMMENDATION P2 REVIEW

Monthly Progress Report to 15 November 2015

DCRP P2 WG

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Report title:	Monthly Progress Report to 15 November 2015	PSP UK
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Objective:

This document reports on the monthly progress made by the Consortium for the P2 review project. Progress is reported on each of the work streams that are presently active including:

- estimated progress so far
- forecast time to complete and deliver
- issues encountered
- forecast of potential issues or risks
- forecast of any changes in scope
- Target progress for next month.

The report also includes the latest revision of overall P2 Review project programme (phase 1), the up dated outstanding actions register and the latest version of the general risk register.

The programmed dates for future progress reports are summarised below:

No.	DCRP P2 WG Meeting Date	Issue Monthly Progress Report
10	Wednesday 24 Nov	Friday 20 Nov
11	Friday 18 Dec	Tuesday 15 Dec

Rev. No.	Date	Reason for Issue	Prepared by
001	20/11/2015	Consortium monthly progress reporting	C MacKenzie



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1 ACTIVE WORK STREAMS

The active work streams and sub work streams are highlighted in Table 1 along with those work streams that are complete or have still to commence.

Work stream/sub-work stream	Deliverable	Activity Status
Work Stream 1 -Project Initiation	Issue of initiation paper	Completed.
Work Stream 2 - Assessment of P2/6 and Identifying Options for Reform		Nearing completion
WS2.0 Stakeholder interviews (intimate)	A summary report covering key highlights from the stakeholder engagement/interview activities.	Nearing completion
WS2.1 Framework for assessing security performance and measures and characteristic network designs	Framework for the development of future network design standards	Nearing completion
WS2.2 Service quality and cost effectiveness of the delivered to consumers by the present network design practises	Summary report that will feed into the 'options' milestone report	Nearing completion
WS2.3 Risk associated with asset replacement, common mode failures and high impact events	Summary report that will feed into the 'options' milestone report	Nearing completion
WS2.4 Impact of Smart Grid technologies on service quality risk profile	Summary report that will feed into the 'options' milestone report	Nearing completion
WS2.5 Assessment of impacts of alternative control and operation strategies on security of supply	Summary report that will feed into the 'options' milestone report	Ongoing
WS2.6. Loss inclusive design of distribution networks and impact on security of supply	Summary report that will feed into the 'options' milestone report	Nearing completion
WS2.7: Alignment of security of supply standard in distribution networks with other codes and schemes	Summary report that will feed into the 'options' milestone report	Complete
WS2.9: Options for future development of distribution network standard including 1st Iteration of the Techno economic Model	Summary report that will feed into the 'options' milestone report	Ongoing.
Work Stream 3 - P2/6 Options Report	P2/6 Options Report	Started
Work Stream 5 Stakeholder Engagement Report: Workshop	Stakeholder Workshop Report.	Still to start
Work Stream 6 - Formal Strategy Consultation for P2/6	Formal Strategy Consultation Paper for P2/6	Still to start
Work Stream 7 – Detailed review and analysis	Tabulated view of all question responses and actions to be taken with regards to final Phase 1 Report.	Still to start
Work Stream 8 - Phase 1 report	Phase 1 final report	Still to start
Work Stream 9 - Programme work for Phase 2	Work programme for Phase 2 – project plan and supporting documentation	Still to start

Table 1 Summary of Active Work Streams

2 ACTIVE WORK STREAM SUMMARIES

2.1 Estimated progress

For all active work streams the following table shows the estimated progress this month and the overall progress to date including the estimated percentage completion and key milestones achieved or tasks completed or a brief account of progress.

Work Stream	% completion last month	% completion this month	Key milestones achieved or tasks completed or brief account of progress
WS1	50	100	<ul style="list-style-type: none"> Completed 1 May 2015.
WS2.0	95	98	<ul style="list-style-type: none"> The draft report covering the analysis of stakeholder responses to the questionnaire and followup interviews was completed and issued to the ENA on 13 Nov 2015.
WS 2.1	95	98	<ul style="list-style-type: none"> Draft report covering WS2.1 to WS2.6 works issued by Imperial College on 10 Nov 2015 to all DCRP P2 WG members for review and comment. The key conclusions from this report will feed into the WS2.9 draft options report.
WS2.2	95	98	<ul style="list-style-type: none"> Draft report covering WS2.1 to WS2.6 works issued by Imperial College on 10 Nov 2015 to all DCRP P2 WG members for review and comment. The key conclusions from this report will feed into the WS2.9 draft options report.
WS2.3	95	98	<ul style="list-style-type: none"> Draft report covering WS2.1 to WS2.6 works issued by Imperial College on 10 Nov 2015 to all DCRP P2 WG members for review and comment. The key conclusions from this report will feed into the WS2.9 draft options report.
WS2.4	95	98	<ul style="list-style-type: none"> Draft report covering WS2.1 to WS2.6 works issued by Imperial College on 10 Nov 2015 to all DCRP P2 WG members for review and comment. The key conclusions from this report will feed into the WS2.9 draft options report.
WS2.5	85	98	<ul style="list-style-type: none"> Draft report covering WS2.1 to WS2.6 works issued by Imperial College on 10 Nov 2015 to all DCRP P2 WG members for review and comment. The key conclusions from this report will feed into the WS2.9 draft options report.

WS2.6	95	98	<ul style="list-style-type: none"> Draft report covering WS2.1 to WS2.6 works issued by Imperial College on 10 Nov 2015 to all DCRP P2 WG members for review and comment. The key conclusions from this report will feed into the WS2.9 draft options report.
WS2.7	100	100	<ul style="list-style-type: none"> Although the final report was complete and issued. NERA has considered some late comments on the final report.
WS2.9	25	30	<ul style="list-style-type: none"> Framework and introduction for the WS 2 options report which pulls together the outputs from the other WS2 sub-work streams written. Section outlining the process of reviewing the high level options for a new standard using the results from WS 2.0 to 2.6 and WS2.7 drafted and circulated to consortium members for comment. Key conclusions from WS2.1 to 2.6 and the qualitative analysis from WS2.0 are now available. Work has started planning the key conclusions that impact on the high level options assessment which is using the WS2.7 report assessment as the starting point.

Table 2 Summary of active works tream progress

2.2 Forecast time to complete and deliver

The following table shows the forecast time to complete and deliver the active work streams.

Work Stream	Forecast calander weeks to complete	Comments
WS1	Completed on 1 May 2015.	
WS2	4 (14 Dec 2015)	Working to revised programme presented in the Nov progress report. Note that issue of the WS2.9 draft options report signifies the end of WS2 with the development of the report into a finalised version ready for issue to the wider industry carried out under WS3.
WS2.0	4 (14 Dec 2015)	Working to revised programme presented in the July progress report. Qualitative analysis and report presently being worked on. Sept 2015 a further 3 weeks added to programme for this task. Nov 2015 rather than releasing the report as final with no opportunity for comment by the WG, the report was released as draft on 13 Nov (2 weeks late)

		a further 6 weeks has been added to the forecast to allow WG members to comment back and for the report to be issued as a final draft.
WS2.1	4 (14 Dec 2015)	<p>Following July Workshop revised reliability and cost data issued for working group agreement. Summary section writing. The process of data input peer review and revised studies accounts for a part of the additional programme extension. Sept 2015 a further week added to programme for this task.</p> <p>Nov 2015 rather than releasing the report as final with no opportunity for comment by the WG, the report was released as draft on 10 Nov (2 weeks late) a further 7 weeks has been added to the forecast to allow WG members to comment back and for the report to be issued as a final draft.</p>
WS2.2	4 (14 Dec 2015)	<p>Following test cases presented at the July Workshop the case studies for EHV and 132 kV networks have been performed. Business case for more than two transformers per substation. The process of data input peer review and revised studies accounts for a part of the additional programme extension. Summary section writing. Sept 2015 a further week added to programme for this task.</p> <p>Nov 2015 rather than releasing the report as final with no opportunity for comment by the WG, the report was released as draft on 10 Nov (2 weeks late) a further 7 weeks has been added to the forecast to allow WG members to comment back and for the report to be issued as a final draft.</p>
WS2.3	4 (14 Dec 2015)	<p>Additional case studies and summary report writing. The process of data input peer review and revised studies accounts for a part of the additional programme extension. Sept 2015 a further week added to programme for this task.</p> <p>Nov 2015 rather than releasing the report as final with no opportunity for comment by the WG, the report was released as draft on 10 Nov (2 weeks late) a further 7 weeks has been added to the forecast to allow WG members to comment back and for the report to be issued as a final draft.</p>
WS2.4	4 (14 Dec 2015)	<p>Repeat initial value of automation case studies using agreed reliability data on more DNOs, and summary section writing. Impact of DSR cost on their optimal contribution. The process of data input peer review and revised studies accounts for a part of the additional programme extension. Sept 2015 a further week added to programme for this task.</p> <p>Nov 2015 rather than releasing the report as final</p>

		with no opportunity for comment by the WG, the report was released as draft on 10 Nov (2 weeks late) a further 7 weeks has been added to the forecast to allow WG members to comment back and for the report to be issued as a final draft.
WS2.5	4 (14 Dec 2015)	Additional case studies and summary section writing. The process of data input peer review and revised studies accounts for a large part of the additional programme extension. Sept 2015 a further week added to programme for this task. Nov 2015 rather than releasing the report as final with no opportunity for comment by the WG, the report was released as draft on 10 Nov (2 weeks late) a further 7 weeks has been added to the forecast to allow WG members to comment back and for the report to be issued as a final draft.
WS2.6	4 (14 Dec 2015)	Continue working on the task, and summary section writing. The process of data input peer review and revised studies accounts for a part of the additional programme extension. Sept 2015 a further week added to programme for this task. Nov 2015 rather than releasing the report as final with no opportunity for comment by the WG, the report was released as draft on 10 Nov (2 weeks late) a further 7 weeks has been added to the forecast to allow WG members to comment back and for the report to be issued as a final draft.
WS2.7	Completed.	
WS2.9	3 (7 Dec 2015)	This has been delayed by delays to other WS2 sub work streams as reported last month. The draft WS2.9 options report will be issued this coming month. The draft report issue signifies the end of WS2 with the development of the report into a finalised version ready for issue to the wider industry carried out under WS3.

Table 3 Summary of active work stream forecast time to complete

2.3 Issues encountered

The following table shows the issues encountered and estimated delay caused for each active work stream along with potential options to mitigate delays where possible.

Work Stream	Issue encountered	Delay caused	Proposed mitigation	Forecast reduction in delay due to mitigation
WS2	WS2.0 DNO data	Estimated to be 3.5	Data collection and	Cannot be estimated.

	collection and interviews.	months.	interviews now complete.	
WS2.7	Delays in receiving comments from some key WG members on WS2.7 report. Additional time spent reviewing and discussing these comments to close them out.	Initial deadline for WG comments was 9 Sept, extended to 29 Sept for some members. Final comments on draft received on 20 Oct. Final report issued on 23 Oct to WG members. Further comments still being reviewed with at least 1 member up to 6 Nov. Programme for WS2.7 extended by approximately 8 weeks.1 week to overall programme	All comments finally received by 20 Oct 2015. WS2.7 report now complete ready for updates to WS2.9 report.	
WS2.1 to 2.6	Consortium late delivering report covering these workstreams. This was due to the volume of work.	2 weeks to overall programme.		
WS2.0	Consortium late delivering report covering this workstream. This was due to internal re-drafting requirements.	2 weeks to overall programme.		

Table 4 Summary of active work stream issues encountered

2.4 Forecast of potential issues or risks

A forecast of potential issues or risks impacting on delivery timescales, outputs agreed or quality of outputs for each active work stream are recorded in the following table. The table also contains potential options to mitigate any such impacts where possible.

Work Stream	Forecast Issue/Risk	Impact of Risk/Issue	Proposed mitigation	Forecast reduction in impact due to mitigation
WS3	Some WG members slow to review and	Possible 4 to 8 weeks	ENA and DCRP chair to manage stakeholder response	

	respond to the WS2.9 draft options report. This is based on responses to other reviews in the project to date.	based on past performance.	timelines.	
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Table 5 Summary of active work stream forecast potential issues or risks

2.5 Forecast of any changes in scope

The following table includes a forecast of any potential changes in scope for each active work stream that would require discussions with the DCRP P2 WG regarding an agreed change in scope or a budget variation.

Work Stream	Forecast scope change	Reason for change	Cost of potential scope change
WS1	None to report		
WS2	Additional PM due to programme delays from late receipt of data and DNO questionnaire responses and interview dates.	Overall P2 programme delay of 4.5 – 5 months estimated due to delays in receiving RRP data and also revising forward programme based on experience to date. This will result in additional management and reporting costs due to the programme extension from end of January 2016 until the programme is complete.	The forecast programme has slipped by nearly five months outside of the Consortium’s control. An estimated cost for additional project management to continue the programme has been provided to the ENA. At the request of the DCRP P2 WG and ENA, this is to be formalised and presented by letter to the ENA.

Table 6 Summary of active work stream forecast scope changes

2.6 Target progress for next month

The following table includes a forecast of the intended progress to be made in the next month based on the progress so far.

Work Stream	Planned work targets
WS1	Completed.



WS2.0	Finalise and issue the WS2.0 report based on WG member comments received. Based on closing date for comments of 28 Nov 2015.
WS2.1	Finalise the WS2.1 to 2.6 report based on WG member comments. Based on closing date for comments of 28 Nov 2015.
WS2.2	Finalise the WS2.1 to 2.6 report based on WG member comments. Based on closing date for comments of 28 Nov 2015.
WS2.3	Finalise the WS2.1 to 2.6 report based on WG member comments. Based on closing date for comments of 28 Nov 2015.
WS2.4	Finalise the WS2.1 to 2.6 report based on WG member comments. Based on closing date for comments of 28 Nov 2015.
WS2.5	Finalise the WS2.1 to 2.6 report based on WG member comments. Based on closing date for comments of 28 Nov 2015.
WS2.6	Finalise the WS2.1 to 2.6 report based on WG member comments. Based on closing date for comments of 28 Nov 2015.
WS2.7	Complete, no further work will be done on this task.
WS2.9	The fully developed the draft options report and issue.

Table 7 Summary of target progress for next month.



3 P2 REVIEW PROJECT PROGRAMME

Based on progress to date and forecast completion times, the latest forecast delivery programme is included in Appendix A. Appendix A includes the original programme at the commencement of the project in January 2015 along with the revised programme agreed between the consortium members on 19 June followed a further programme forecast made at the beginning of August 2015. The August revised programme reflects the data gathering issues encountered and the estimated time required completing the WS2 peer reviews at key stages.

Note, based on progress to 18 Oct there was a potential 2 week delay in the programme.

The programme has been reviewed in November and considers all delays to date with some recognition of potential future delays indicated in Table 5 as the programme moves into WS3. The Nov 17 revised programme considers the delays to issuing the WS2.9 draft option report that through WS3 will become the final option report for issue to the wider industry prior to the WS5 industry workshop covering the WS3 options report. WS3 did commence with a WG workshop at the October 27 monthly WG meeting and the WS2.9 draft options report is expected out by 7 Dec 2015. The WS5 industry workshop is programmed between 22 Feb and 11 March 2016 with the actual date to be confirmed by the ENA events team. The remaining WS3 programme and preparatory elements of WS5 programme consider the above constraining dates in developing the revised programme.



4 OUTSTANDING ACTIONS REGISTER

The outstanding actions register is provided in Appendix B.



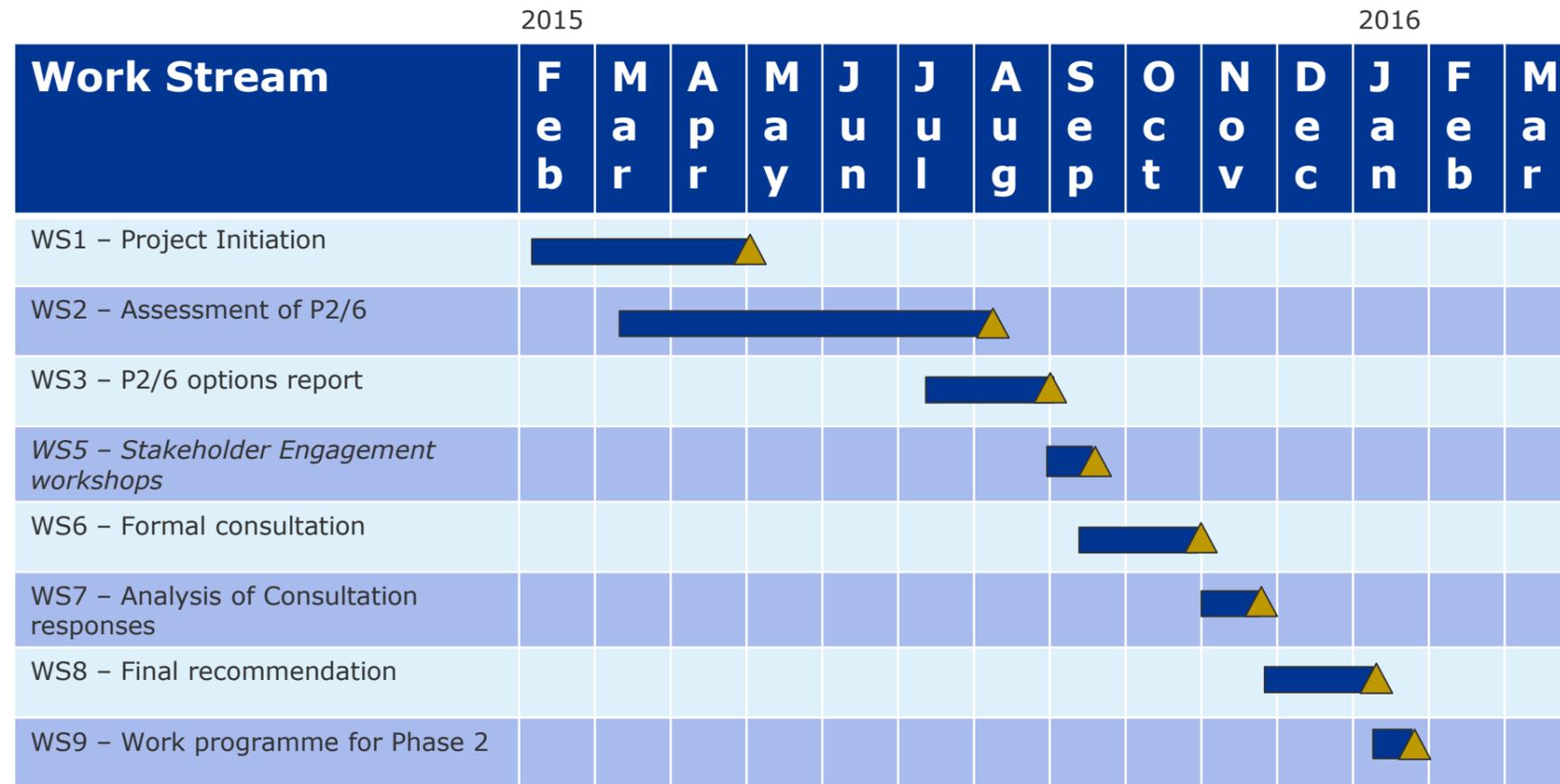
5 RISK REGISTER

The latest generic register of risks to programme delivery and mitigating controls is provided in Appendix C. The detailed risks and mitigation measures are provided in Table 5 in section 2.4.



Appendix A Project Programme

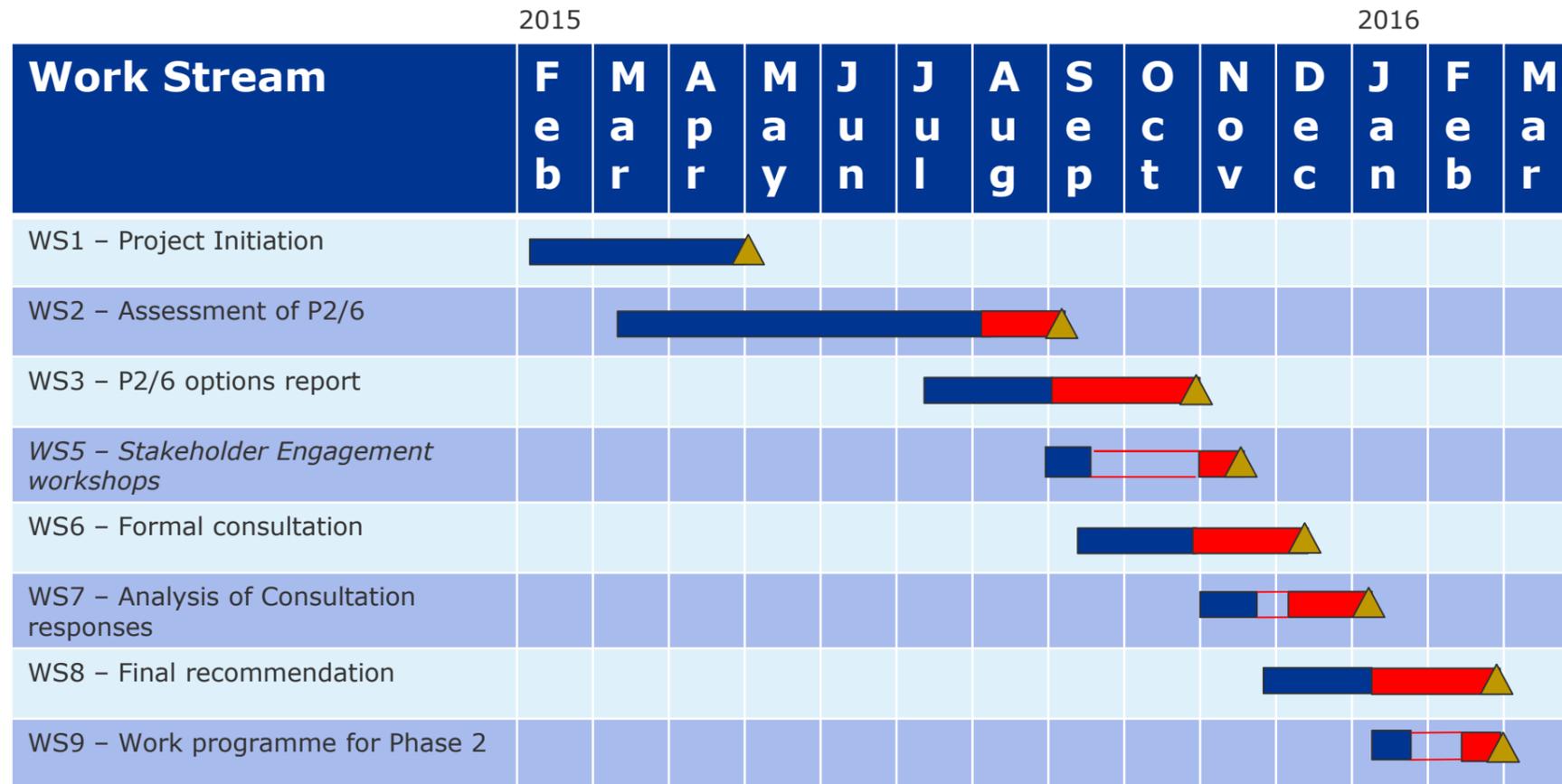
The original (January 2015) high level summary programme is shown below.



▲ = defined deliverable



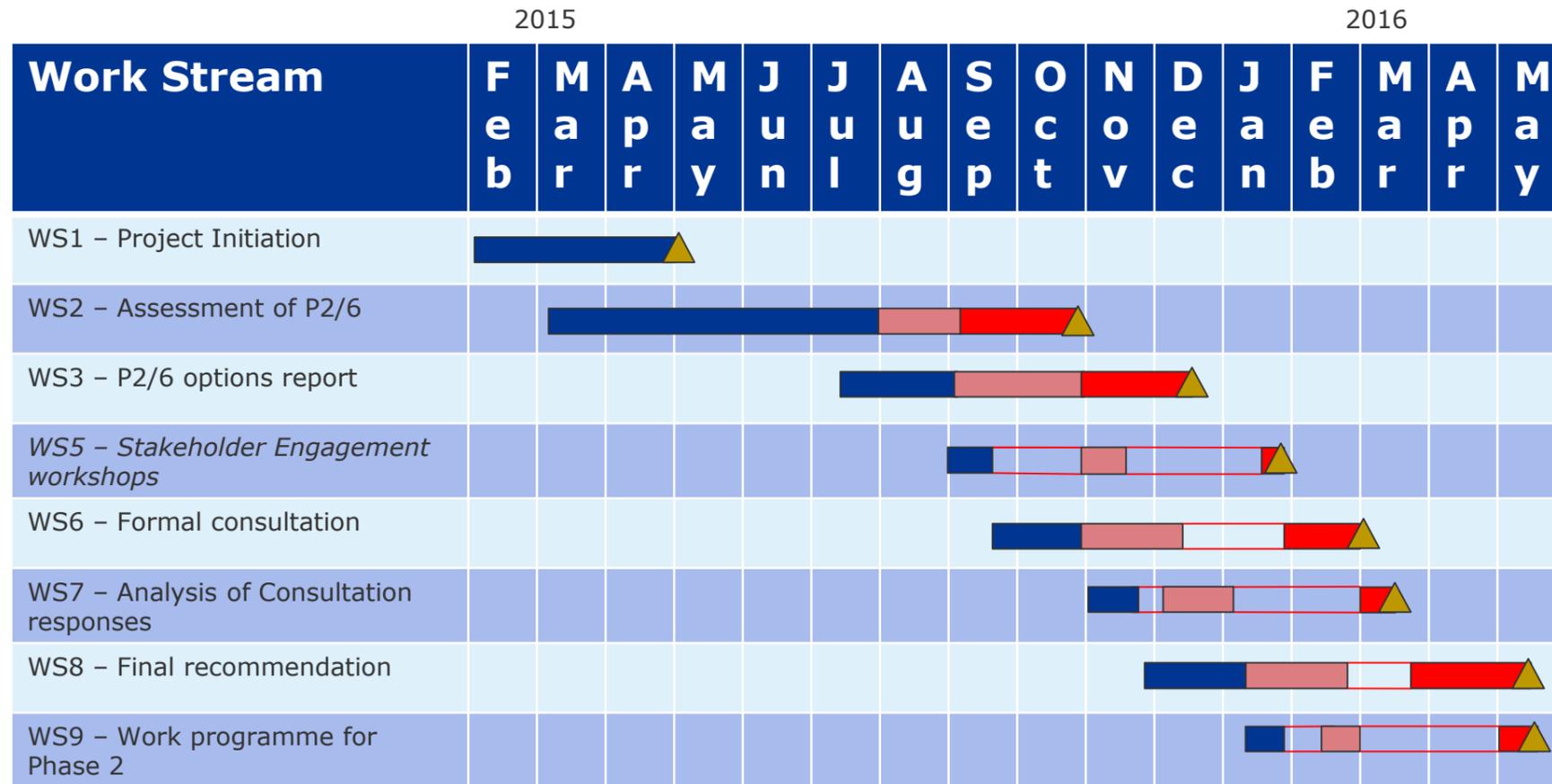
The programme review carried out on June 19 2015 has resulted in the revised programme below. Revisions are coloured red.



▲ = defined deliverable

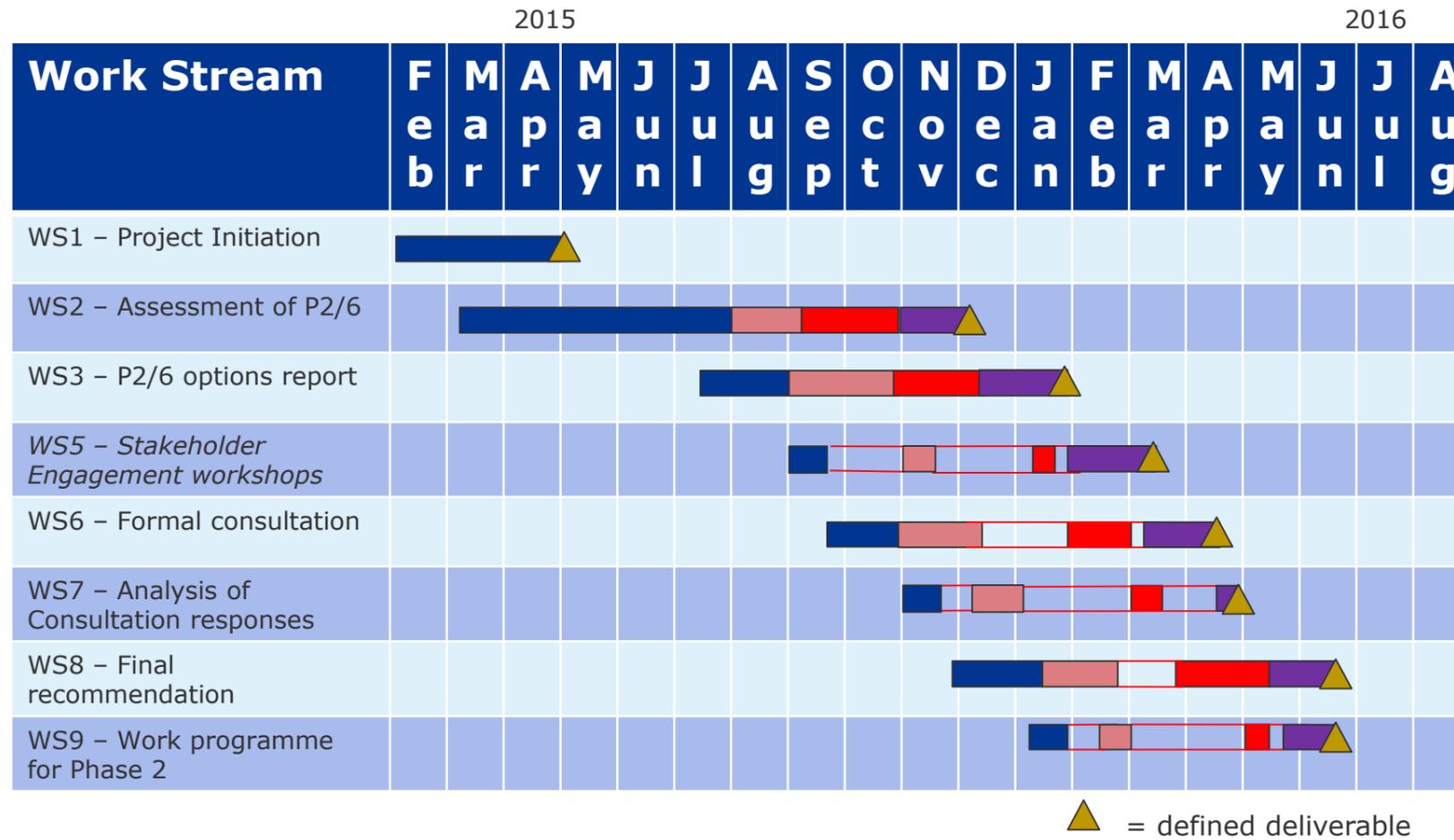


The programme review carried out in August 2015 has resulted in the revised programme below. The June revisions are coloured pink and the August revisions are coloured red.



▲ = defined deliverable

The programme review carried out in November 2015 has resulted in the revised programme below. The June programme revisions are coloured pink, the August revisions are coloured red and the November revisions are coloured purple.







Appendix B Outstanding Actions Register

Outstanding actions following meeting on 27 October 2015.



Action Description

- 3 Consortium to consider impact of WS7 information provided by DCRP P2 WG on P2 review. WS 2 activity for NERA and Imperial.

DCRP P2 WG to check with Ofgem how interactions with WS7 may be handled.

- 8.7 SC provided high level feedback to the materials presented to the review meeting on 20 July (SC's email was circulated to WG members on 31 July 2015 by CMack, see Appendix A for SC's email) – other WG members were asked to review and agree that SC's comments cover their own organisations' view or provide their own feedback to Goran's presentation. To date most DCRP P2 WG members have not responded.
- 8.9 DS to consider when the drop dead date is to set the date for the WS 5 stakeholder event for week starting 18 January 2016 and check with C MacK closer to this date the likelihood of the programme meeting this date.

Action/Responsible/Due Date

GS, RD /Consortium PM/during workstream 2.

Ongoing

Ongoing (meeting 6) SC to check with Ofgem (GE) how the interactions with WG7 may be handled with the P2/6 review.

(Meeting 7) SC has spoken with GE and GE is happy to act as link to WS7 works.

All DCRP P2 WG members to indicate their agreement that SC's feedback covers their own organisation's views or to provide their own feedback by 4 Sept 2015.

Meeting 9. CMack has not seen any evidence of this. SC to chase responses from other DNOs.

Meeting 10, DS asked that CMack circulate the SC comments to all WG members again and that if any WG members wish to add to or disagree with SC's comments they should send their responses to SC/DS/CMack by Friday 30 Oct. A NIL response will be taken as agreement with SC's comments. CMack has recirculated SC's comments on 28 Oct 2015. Action on WG members to respond by 30 Oct 2015.

DS.

Meeting 9. Discussed date for WS5 industry stakeholder event in January 2016 and the need for timely completion of the WS2.9 report and DCRP P2 WG agreement on WS3 final options report. This was discussed further under agenda item 4 regarding risks to the programme. KC indicated that for a January 2016 event, the ENA's events team should start planning this month.

Meeting 10. Due to ongoing delays in delivery of reports by Imperial (this being impacted by Goran's recent accident) CMack had been reluctant to confirm the date in the existing programme. Programme has slipped at present 3 weeks awaiting outputs from Imperial. Agreed that CMack should provide two or three dates to get the ENA events team started. CMack to provide dates to DS by 30/10/2015.



Action Description	Action/Responsible/Due Date
9.1 KC asked if the consortium had a more detailed programme than the one in the progress report. CMack is to forward this to KC.	CMack/CMack/2 Oct 2015 CMack indicated the programme was being transferred from Excel to MS Project. This was complete but checks were required. C Mack to send to KC and DS by 30 Oct 2015.
9.4 GS is to prepare the summary write ups for the key WS2 analysis areas and submit to the DCRP P2 WG as soon as possible to assist with the WG's review of the outputs.	GS/GS/9 Oct 2015. Meeting 10. GS is running late with these. The summaries of the WS2 analysis areas will be include in the Imperial WS2 report which should be issued by end of week commencing 2 Nov 2015.
9.7 The cost of implementing the move to a CBA based standard has been raised as a concern in the feedback to the WS2.7 report. RD asked WG members for any evidence of such costs.	DCRP P2 WG/DS/2 Oct 2015 Meeting 10. RD indicated that no evidence had been forthcoming. Action left open until 6 Nov 2015.
New Action	Action/Responsible/Due Date
10.1 Follow on from action 9.9, "RD is to draft a letter from SC to GE to seek some guidance from Ofgem on the feasible high level P2/6 replacement option the DCRP P2 WG can realistically recommend subject the need for Ofgem's approval. SC then to finalise and send to GE". Based on the subsequent meeting SC had with Ofgem, Ofgem issued and email providing some guidance. This email was circulated by DS to WG members on 27 Oct 2015. All WG members are to advise any issues they see from the Ofgem guidance.	All WG members to respond to SC, copying in DS/CMack/GS/RD by 6 Nov 2015. A NIL response will be assumed as there being no issues.
10.2 RD is to advise BW when he can release the WS2.7 report to his trade members.	RD as soon as feasible.
10.3 AB to contact BW and advise who at REA he discussed the questionnaire response with.	AB by 13 Nov 2015.
10.4 SC suggested that a couple of conference call slots are arranged during the review process of the WS2.9 and Imperial supporting quantitative analysis report to allow members to compare notes. DS to conduct a doodle pole of members for a suitable date and time before and after the 24 Nov WG meeting. CMack suggest that based on the expected dates for issue of the Imperial report and WS2.9 report that DS targets weeks commencing 16 Nov and 30 Nov.	DS/ by 6 Nov 2015.
10.6 To assist the DNOs get an idea of the effort and resources required if adopting the CBA option to	RD/ 6 Nov 2015.



Action Description

Action/Responsible/Due Date

replace or amend P2, RD was asked to provide some guidance on what a possible CBA may consist of. This includes any probability analysis tools, trained staff etc.

10.7 With regards to the WS2.7 report now clarifying the distinction between a deterministic standard that targets average reliability, and one that sets de minimis requirements, RD is to provide with more guidance on this difference.

RD/ 6 Nov 2015.



Appendix C Risk Register



Cells contain formulas and will be calculated. Do not update these cells.

Text Blue text represents sample text and should be ignored. This row is not included in graph and sort algorithm.

Acceptable risk score =

Use this page to register all risk factors currently known. Use a scale of 1- 5 (highest) to indicate probability and consequence for each factor.

			*Probability	*Consequence	Risk score = P x C	Risk score last period		
Id	RBS	Risk description	P	C	Score	Last period	Action	Responsible
3	Project Management	Timescales slip on work streams and project end date or work cannot be completed within timescales	3	4	12		PM will work with ENA and team to revise the programme where possible.	PM
4	Technical	Work stream outputs do not deliver the expected results	2	4	8		PM and team will work with ENA to address any such issues as they occur.	PM
5	Technical	Data is delayed or unavailable (for techno-economic model)	4	3	12		All consortium members to make PM aware of issues. PM to assist with data from stakeholders.	PM
6	Project Management	Working together is difficult as partners are physically remote	2	2	4		PM to hold regular meetings with consortium partners to review any issues.	PM
1	External	Access to Stakeholders	1	3	3		Liaise closely with ENA, make sure process is transparent (robust stakeholder engagement process)	PM
7	Organizational	Insufficient resource or expertise within consortium to undertake work	1	3	3		Team includes duplicate resources	PM
8	Technical	Peer review process by DCRP P2 WG takes excessive time to reach a point where all DCRP P2 WG members are have with the robustness of data inputs and outputs from the IC analysis.	4	3	12		A P2 sub group has been put in place to speed up the peer review process	DCRP P2 WG chair.

Sort list to identify top 5 risks

Risk register embedded file, used for amendments.



Risk Register V
003.xlsx





About DNV GL

Driven by our purpose of safeguarding life, property and the environment, DNV GL enables organizations to advance the safety and sustainability of their business. We provide classification and technical assurance along with software and independent expert advisory services to the maritime, oil and gas, and energy industries. We also provide certification services to customers across a wide range of industries. Operating in more than 100 countries, our 16,000 professionals are dedicated to helping our customers make the world safer, smarter and greener.