

The background of the slide is a photograph of a person's hands using a payment terminal. The person is holding a card and a stylus. Overlaid on the image is a logo consisting of two overlapping rounded shapes, one yellow and one green, with the text 'payments strategy forum' in white. The text is arranged in three lines: 'payments', 'strategy', and 'forum'.

payments
strategy
forum

New Payments Architecture

Payments Strategy Forum
26th April 2017



Agenda

- A. New Payments Architecture summary**
- B. Community Roundtables**
- C. New Payments Architecture Workstream Status Updates**
- D. Key Risks and Issues**
- E. Plan up to Consultation Date**

Appendix

- I. NPA Organisation & Scope**
- II. End User Needs Use Cases**
- III. High Level Architecture View**

A. New Payments Architecture Summary

Summary

Current Status

Workstream 1: End User Requirements and Rules

- On track
- Requirements Use Cases completed and prioritised for each of the 3 EUN solutions (see appendix)

Workstream 2: Solution Design

- Multiple working sessions run with industry architecture team to focus on specific elements of design blueprint
- Core team formed and WS2 Technical Design Authority initiated (meets weekly).
- Sessions with Bank of England held to align approach on settlement; draft approach documented
- Ramp up of architecture resources slower than anticipated; path to full team in place and factored into plan

Workstream 3: Implementation and CBA

- On track
- Draft Landscape Map approved by WS3 leads and reviewed by PSR. To be presented at this Forum.
- Completed 1:1 sessions with selected PSF stakeholders to walkthrough lessons learnt and issued an updated CBA approach in an Inception Report.

Workstream 4: Funding Model

- On track
- The Workstream has been mobilised with Faith Reynolds appointed chair.

Next Steps

- Requirements review sessions with stakeholders
- Business rules definition
- Production of draft EUN Blueprint document
- Mitigation actions to bring Workstream 2 back on track to meet July consultation timeline are in place
- Work expected to be back on track by mid May
- Iteration of High Level Architecture and drafting of Consultation level architecture documents to support July timeline
- Completion of CBA data collection focus interviews with stakeholders from Industry
- Ongoing iteration to the draft of benefits as focus sessions continue
- The core advisory group is being formed
- Potential funding models will be further developed

B. Community Roundtables

Summary

Community Roundtables are scheduled to be run on 2nd and 3rd May

At the Roundtables, the Design Hub will share the materials with the Payments Community to reflect the current status of activities:

- End User Needs Use Cases
 - Providing a high level view of the agreed Use Cases for Request to Pay, Assurance Data and Enhanced Data
- High Level Architecture view
 - Providing a diagrammatic overview of the current iteration of the layered architecture for the New Payments Architecture
 - This view will be refined and re-issued in advance of the roundtables
- Implementation Plan – Industry Landscape
 - Providing a view of the change landscape for the payment industry over the next three years through combining a number of views in one document

C. WS1: End User Requirements & Rules

Key Activities since the Last Forum Update	Key Upcoming Activities						
<ul style="list-style-type: none"> ▶ Use Cases completed and prioritised for each of the 3 EUN solutions. ▶ Carried out a whole day workshop (7th March) with representatives from the various End User groups out which we came up with a complete set of Use cases for the 3 EUN solutions. ▶ Socialised the Use Cases with the schemes and organisations (FPS, BACS, Paym Payments UK) to obtain feedback and compare notes on their findings from the work they have carried out. ▶ Designed a prioritisation framework against which we tested and prioritised each of the user cases to settle on the essential set core to the EUN solutions that met the detriments identified in the Strategy. ▶ Agreed set of principles and scope based on the detriments identified in the strategy phase. ▶ Agreed level of Detail with the PSR as well as guidelines on collaborative versus competition principles. ▶ Blue print structure drafted and presented to the Design hub. Work on drafting the blue print content in train. ▶ 1st Draft of User Stories (Requirements) complete. 	<ul style="list-style-type: none"> ▶ First round of requirements review with stakeholders ▶ Business rules definition. ▶ Production of Draft EUN Blueprint ▶ Interlock sessions with WS2 and WS3 to test assumptions made by each Workstream. 						
Overall workstream RAG status							
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 33%;">Previous</td> <td style="text-align: center; width: 33%;">Current</td> <td style="text-align: center; width: 33%;">Forward</td> </tr> <tr> <td style="text-align: center;">G</td> <td style="text-align: center;">G</td> <td style="text-align: center;">G</td> </tr> </table>		Previous	Current	Forward	G	G	G
Previous	Current	Forward					
G	G	G					
<ul style="list-style-type: none"> ▶ Green as workstream on schedule and outlook to complete on schedule 							

- R** Serious challenges exist, and the committed baseline has been or will be missed. Mitigating plans and resources are not in place.
- A** Issues exist with some risks to committed baseline. Mitigating plans and resources agreed and in progress.
- G** Issues may exist, but on target to deliver against the committed baseline.



C. WS2: Solution Design

Key Activities since the Last Forum Update

- ▶ Core team formed and WS2 Technical Design Authority initiated (meets weekly)
- ▶ Multiple working sessions run with industry architecture team
- ▶ Sessions with Bank of England held to align approach to NPA architecture, draft settlement paper issued within team confirming centralised settlement.
- ▶ Architecture Principles reviewed by TDA and have been issued to the Design Hub
- ▶ A return to green initiative has been agreed with the Design Hub chairs which incorporates:
 - ▶ Reinforcement of the separation of delivery and structure roles from technical content roles.
 - ▶ Resource focus to be focussed on WS2 deliverables that are essential for the July Design Consultation documents
 - ▶ Organising new resources to maximise productivity

Key Upcoming Activities

- ▶ Finalisation of Baseline High Level Architecture.
- ▶ Interlock sessions with other workstreams to manage assumptive dependencies
- ▶ Iteration of High Level Architecture and drafting of Consultation level architecture documents

Overall workstream RAG status

Previous

G

Current

A

Forward

A

- ▶ Amber as Resourcing issues have slowed progress in this workstream – resources have joined more slowly than anticipated
- ▶ Expectation of returning back to schedule by mid May as mitigation actions bear fruit

R

Serious challenges exist, and the committed baseline has been or will be missed. Mitigating plans and resources are not in place.

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G

Issues may exist, but on target to deliver against the committed baseline.

C. WS3: Implementation and CBA

Key Activities since the Last Forum Update	Key Upcoming Activities		
<p>Implementation</p> <ul style="list-style-type: none"> ▶ Draft Landscape Map approved by WS leads and reviewed by PSR. Currently undergoing Iterations to provide insight for the Forum ▶ Advisory group membership (BACS, FPS, C&CC, BOE) initiated with meetings underway ▶ Work plan and approach, including dependencies have been socialised with concerns raised on WS2 interlocks (Implementation will be informed by WS2 draft requirements/design) ▶ Additional resourcing needs and role profiles approved with resources onboarded by end of April <p>Cost Benefit Analysis</p> <ul style="list-style-type: none"> ▶ Completed 1:1 sessions with selected PSF stakeholders to walkthrough lessons learnt and proposed CBA approach ▶ CBA Inception report articulating approach and methodology (including data collection etc.) has been issued and approved by the WS leads ▶ Focus interviews with stakeholders across the industry (PSPS, businesses, solution vendors, FinTechs, Government) which will provide data collection have been scheduled ▶ Consideration on Counterfactual concept is underway 	<ul style="list-style-type: none"> ▶ Continued working relationship with WS2 and WS1 to manage dependencies and assumptive risks. <p>Implementation</p> <ul style="list-style-type: none"> ▶ Industry Landscape Map completed (including Forum views) ▶ Industry engagement from Advisory Group <p>Cost Benefit Analysis</p> <ul style="list-style-type: none"> ▶ Completion of data collection focus interviews with stakeholders from Industry ▶ Ongoing iteration to the draft of benefits as focus sessions continue ▶ Draft of the Cost Benefit Analysis for the Consultation paper 		
Overall workstream RAG status			
	<p>Previous</p> <p>G</p>	<p>Current</p> <p>G</p>	<p>Forward</p> <p>G</p>
<ul style="list-style-type: none"> ▶ Currently Green as workstream is on track ▶ Forward view is Green but is dependent on how accurate the assumptive dependencies prove as the WS2 finalises the NPA architecture. 			

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C. WS4: Funding model

Key Activities since the Last Forum Update	Key Upcoming Activities						
<ul style="list-style-type: none"> ▶ Workstream 4 has been mobilised with Faith Reynolds selected as the chair. ▶ Draft Terms of Reference (ToR) has been populated and shared with the Design hub for review. ▶ Draft structure of the consultation paper has been produced. ▶ Introduction meetings with WS2 and WS3 leads held this week to identify dependencies and scope of other workstreams. 	<ul style="list-style-type: none"> ▶ Confirm the working group volunteers. ▶ Meeting with WS3 CBA on 19th April. ▶ Meeting with the core group of WS4 to confirm ToR, draft document structure and align on next steps. 						
Overall workstream RAG status							
	<table border="0"> <tr> <td style="text-align: center;">Previous</td> <td style="text-align: center;">Current</td> <td style="text-align: center;">Forward</td> </tr> <tr> <td style="text-align: center;">G</td> <td style="text-align: center;">G</td> <td style="text-align: center;">G</td> </tr> </table>	Previous	Current	Forward	G	G	G
Previous	Current	Forward					
G	G	G					
	<ul style="list-style-type: none"> ▶ Green as the Workstream has drafted timeline with dates for the working group to approve that meets the July consultation timelines. 						

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D. NPA Design HUB – Key Risks, Issues and Dependencies

Key Risks and Issues

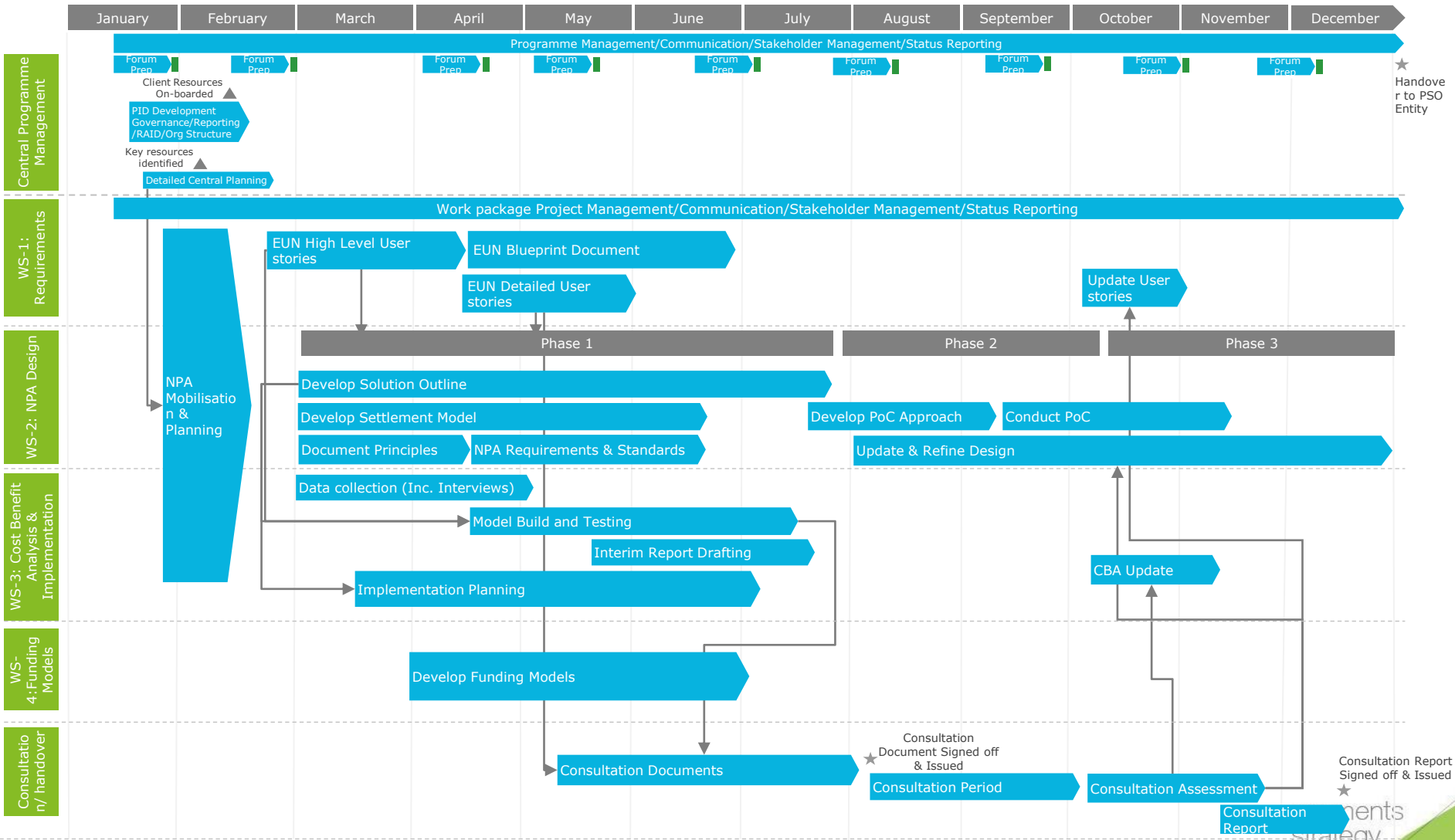
ID	Type	RAG	Res. Date	Title	Description / Impact	Actions/ Decisions
NPA - I001	Issue	R	30/04/17	Limited Architectural Resources impacting delivery	Remaining resources need to be secured for work stream 2. This jeopardizes the activities scheduled for July in terms of design artefacts. Activities are behind schedule	<ul style="list-style-type: none"> Re-worked plan and increased rigour of approach agreed as part of 'Back to Green' plan to bring production of Consultation Design Artefacts back on track
NPA-I002	Issue	A	30/04/17	Stakeholder Engagement	Stakeholders do not buy into the NPA Solution Outline as only a small proportion of them have been represented through the process	<ul style="list-style-type: none"> Regular stakeholder management sessions to be held within WS2.
NPA - R001	Issue	A	30/04/17	Time Constraints	WS2 requires rapid decision making from leadership and is drawing increasing amounts of time from WS leads	<ul style="list-style-type: none"> Assist managing diaries by providing as long term view as possible of the demand for WS leads Discuss with WS how best to structure engagement to support decision making as part of activities moving forward
NPA - R002	Risk	G	30/04/17	Industry Resource Contribution	Initial approach on resourcing for WS2 assumed significant support and contributions from industry, if these are not forthcoming WS2 plan may be impacted	<ul style="list-style-type: none"> Expressions of interest from PSF website are being analysed and donated time is being assigned to key activities. This will be monitored on an ongoing basis
NPA - D001	Dep	A	30/04/17	WS3 has a dependency on WS2	Implementation design is proceeding on an assumptive basis and there is a risk that the workstream will be delayed if those assumptions prove incorrect.	<ul style="list-style-type: none"> Regular communication with WS2 leads and project team to ensure no slippage and provide mitigating plans if appropriate
NPA - D004	Dep	G	30/04/17	Procurement Position	NPSO has a dependency on the Design Hub to provide deliverables which could be used as the basis for a competitive tender	<ul style="list-style-type: none"> PSO resources are involved both at a workstream and a Design Hub level. The appropriate level of documentation has been a focus of each workstream.

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E. Plan Up to Consultation Date



Key

- Forum Meeting
- ▲ Milestone
- ★ Major Milestone

* Dependent on final pilot scope decision

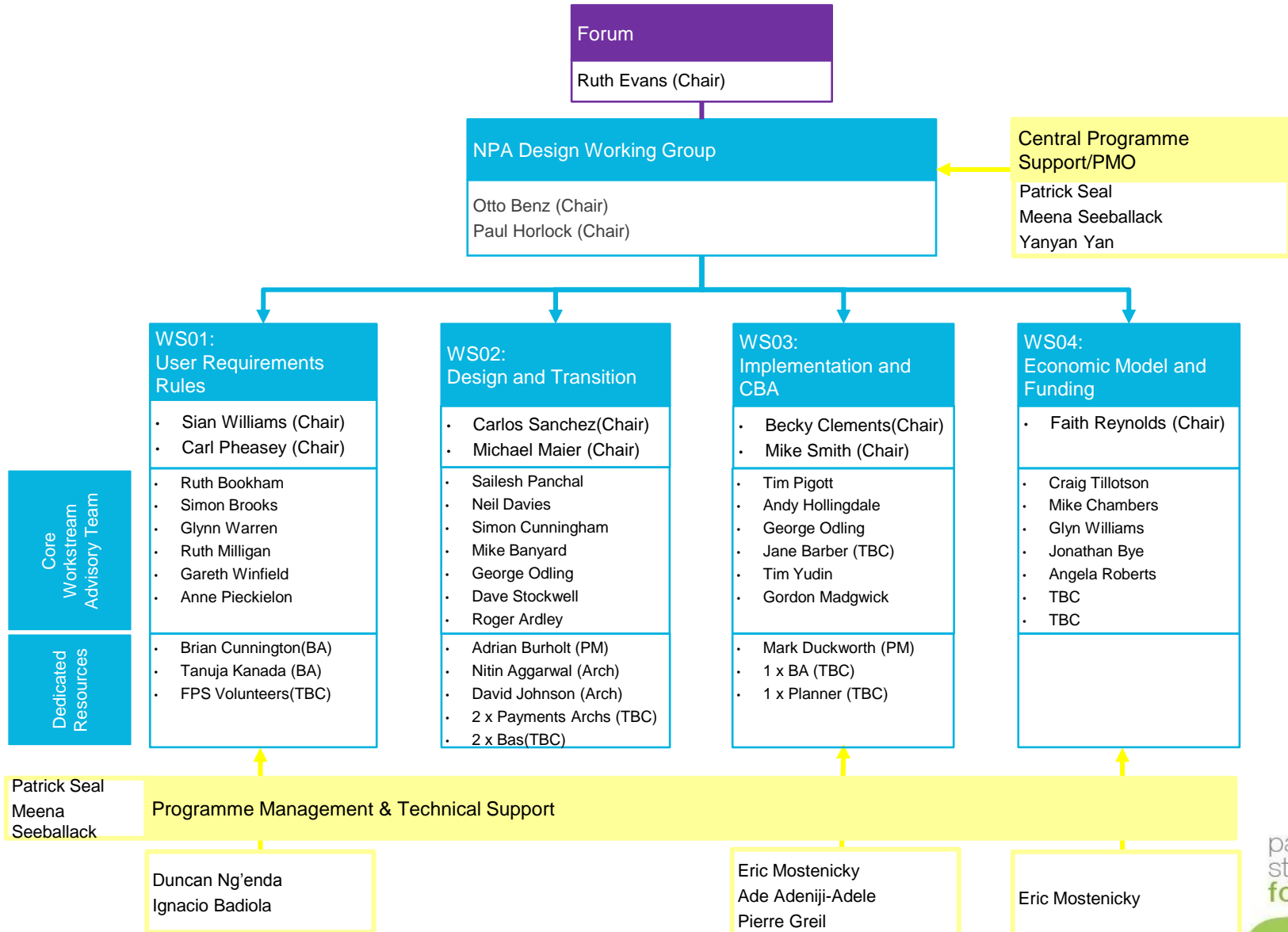


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Appendix I: NPA Organisation & Scope

Appendix I. NPA organisation structure – April



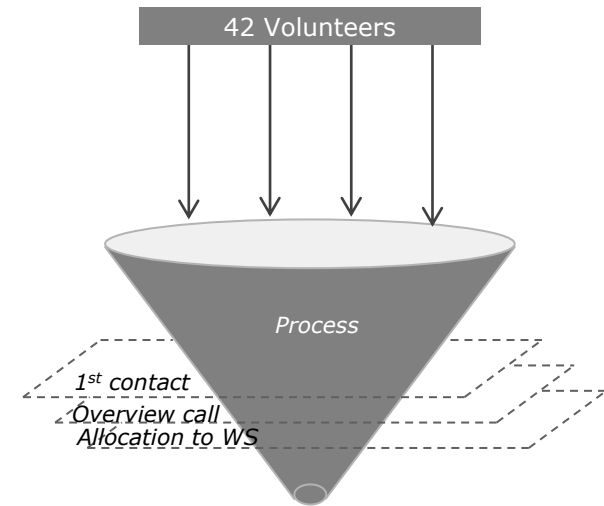
Appendix I. NPA workstreams scope

Solution	In Scope	Out of Scope
NPA WS1 - Requirements	<ul style="list-style-type: none"> ▶ Document a suitably detailed set of the collaborative business requirements for Request to Pay, Assurance Data (including Confirmation of Payee), and Enhanced Data for consultation and ultimately handover to the NPSO by the end of 2017. ▶ Document the outline collaborative rules and requirements ▶ Develop a clear overview of the Legal/Risk implications of the three user needs solutions (e.g. data protection implication of 'confirmation of payee'). ▶ Documented requirements will factor in measures to guard against financial crime and ensure customer protection. Specific financial crime requirements input will be gathered through specific review sessions. 	<ul style="list-style-type: none"> ▶ NPSO will facilitate the accreditation of various providers to offer these services will be provided by the NPSO. ▶ Customer journeys: The workstream will not design the associated customer journeys for each of the EUN solutions. These will be left to the competitive market.
NPA WS2 – Design & Transition	<ul style="list-style-type: none"> ▶ Design of the New Payments Architecture to a level suitable for consultation, to allow the market to develop competitive solutions and to a level that does not stifle innovation. ▶ Design a limited prototype of the New Payment Architecture to test still-to-be-defined capabilities if appropriate ▶ The high level design of the transitional arrangements from the current systems to the NPA, including any interactions with RTGS. 	<ul style="list-style-type: none"> ▶ Creation of procurement artefacts or writing of procurement documents. ▶ Technical reference architecture design and implementation. ▶ Detailed Design.
NPA WS3 - Implementation & CBA	<ul style="list-style-type: none"> ▶ Develop the Payment Landscape map, detailing the activities and initiatives across the payment ecosystem. ▶ Develop a detailed implementation plan for the NPA and a high-level migration plan from existing systems, which will include transition periods and system end dates. ▶ The Cost Benefit Analysis (CBA) will reflect, to the best of the Forum's ability, the input / opinions of a range of industry / community engagement and provide a fair reflection of their opinions. 	<ul style="list-style-type: none"> ▶ The transition plan / migration plan will only pertain to the NPA solution design and the Forum's current way of thinking, with industry input, as at the end of the year
NPA WS4 - Funding	<ul style="list-style-type: none"> ▶ Exposition of the current infrastructure arrangement and funding models (drawing on WS2 and WS3). ▶ Understanding the financial flows between providers and suppliers at a high level. ▶ Articulating the 'layers' of the NPA that need funding and an assessment of whether these are best provided through a competitive or collaborative approach. 	<ul style="list-style-type: none"> ▶ Funding of the NPSO, including the NPSO's set-up and transition costs. ▶ A competitive procurement exercise for the NPA. ▶ The level of actual pricing of the NPA funding options. ▶ An economic business case for investing in the NPA.

Appendix I. Update on Volunteers

Summary

- 1 ▶ There are 42 volunteers, with interest split by:
 - ▶ NPA only: 19
 - ▶ FinCrime only: 7
 - ▶ Both work-streams: 12
 - ▶ No preference stated: 4
- 2 ▶ The process we have undertaken is as follows:
 - ▶ 1st contact via email all NPA Volunteers
 - ▶ 2nd contact: 30 min call with each individual to explain context and assess suitability
 - ▶ 3rd step: allocation to a workstream within NPA or a Vendor Advisory Group
- 3 ▶ The key activities currently in progress are:
 - ▶ Update Design Hub ToR to be updated to reflect the impartiality of all volunteers and that any participant adhering to this ToR will not be precluded from bidding against a procurement that results from the work of the Forum
 - ▶ Volunteers from vendors/third parties have been invited to participate in a NPA Vendor Advisory Group that will be kept abreast of updates and engaged in working sessions to feed back on evolving deliverables.
 - ▶ Additional volunteers could be engaged as architects in WS2 providing they adhere to the ToR, WS2 is confirming the basis on which additional volunteers will be engaged.





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Appendix II: End User Needs Use Cases

Request to Pay

Payee's view



Initiate request to pay

Provide related data (Invoice, receipt, etc.)

Receive payer's response

Reconcile payment

Update payers account

Initiate debt recovery



Contact customer

Capture communication preferences

Update Payer's contact/account information



Create a request to pay back (Refund)

Example

Green Energy (GE), a UK energy supplier, would like to get paid by John and Mary, for energy supplied last month. GE sends John and Mary a request to pay with a bill amount and due date.

Two days later, GE receives a response from John. He will be paying half of the amount and the rest later. One day before the due date, GE receives a second response from John saying he will pay the remainder immediately.

On the same day, GE receives a response from Mary saying that she will be deferring the payment for a week. A week later GE receives a second response from Mary declining the payment. She requests to be contacted. GE sends her a message requesting her preferred contact details. The next morning, GE calls Mary to her mobile as she had previously specified.

At the end of the payment cycle, GE reconciles the payments made. They utilize the Request to Pay Reference captured on the payment.

They realise John has overpaid and send him a request for refund. John responds with the preferred payment method.

Request to Pay

Payer's view



Receive request to pay

- Check associated payment info (Invoice, receipt, etc.)
- Validate Payee

Respond to request to pay

- View real time balance

✓ Accept (Partially or fully)

🕒 Request payment extension

▶▶ Forward (Partially or Fully)

✗ Decline

☎ Contact requester

- Initiate Payment

Example:

John and Mary received a request to pay from Green Energy (GE), their energy supplier, with the amount and due date of their bill payment.

Two days later John accepts the request and initiates the process to pay GE.

Meanwhile, Mary decides to ignore the request until the due date. On due date, she still has not enough money in her account so she decides to pay part of the amount and forward the remainder to her dad who immediately accepts and initiates the payment to GE.

Payer's view



Confirm Payee's identity

Determine Payee identity using an associated reference or proxy

Determine Payee identity using 2nd Level reference or proxy details



Confirm Payee's identity (Special case)

Determine tax status

Determine Residence

Determine Organization type



Determine Status of payment made

Determine position on journey to Payee

Confirm Receipt

- Confirm destination account

Confirm debit status

Example:

Peter has received a text message from Mark, his window cleaner, with some bank account and payment details for a job Mark just concluded. Peter wants to be sure that the details he received are correct and that the account actually belongs to Mark when he makes the payment. Peter accesses his online banking account, inputs Marks account details and confirms that the account does belong to the correct Mark he is willing to pay.

The next day Peter consults the payment he made given that he wants to be sure the payment has reached Mark's account and that the full amount has been accredited to him.



Confirmation of Payer's identity

Determine Payer identity using an associated reference or proxy

Determine Payer identity using 2nd Level reference or proxy details

Example:

British Mobile, a Telco, is setting up a Direct Debit for Matt to pay for his mobile bill and they want to confirm that the bank details that Matt has provided them with are accurate and effectively belong to him, so they don't pull the payment from a wrong account.

When setting up Matt's Direct Debit, British Mobile inputs Matt's detail into the system and they immediately are confirmed that the details are valid and do belong to the correct Matt

Enhanced Data

For reconciliation purposes

EUN Use Cases

Payee's view



Reconcile a remittance to an account



Reconcile a remittance to a transaction



Include data into a received payment

Example:

Northern Water (NW), a water supplying company, requires for Anne to include her customer account number and a reference of bill being paid so that they can easily recognize the transaction and correctly reconcile the payment against the Anne's account.

Payer's view



Add data to a payment

Validate data

Look up data

Example:

Anne is making a payment to Northern Water, her water supplier, for February's bill. Within her online banking mobile application, she looks up her customers account and includes it with the payment as required by NW.



Identify a payment made

Two days later, Anne accesses her bank to identify every transaction she has made this month and identify to whom, for what and how much she paid per transaction.

Main Use Case

Inherited Use Case

Supporting Use Case
(Included / Extended)

Enhanced Data

For analytic purposes

EUN Use Cases



Identify payment description

Identify value of payment

Identify line items (Item description, item cost, quantity, etc.)

Identify date of payment



Identify source of payment



Identify currency of payment



Identify merchant / business category



Identify tax details of payment (VAT, customs, etc.)



Identify payment method

Example:

Timi can't remember the reason of all his June expenses. Therefore Timi accesses his online banking account and looks into his statement and identifies what was he paying for, how much did he paid, how did he paid and to whom did he paid on every transaction.

Main Use Case

Inherited Use Case

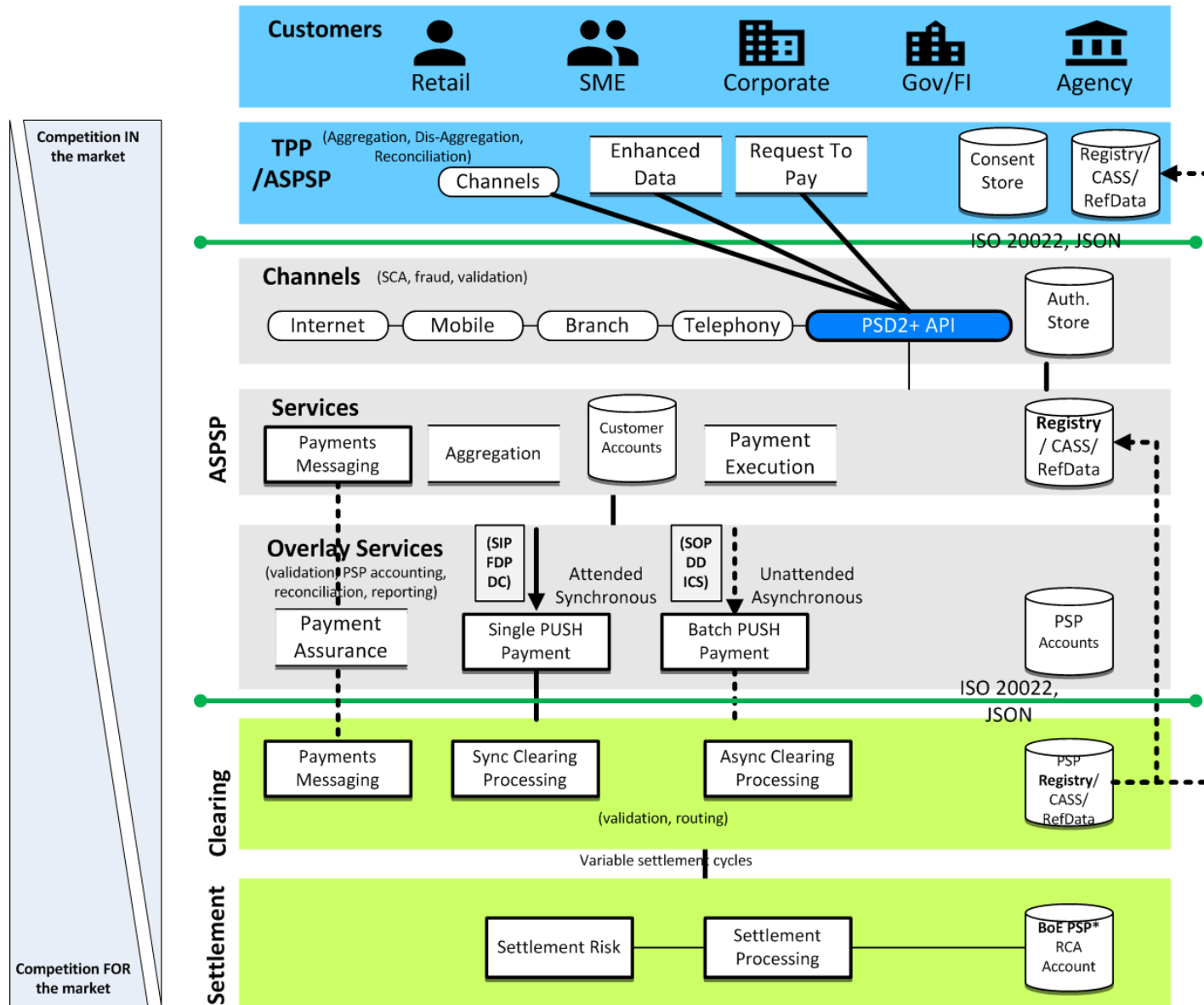
Supporting Use Case
(Included / Extended)

A hand is shown holding a credit card over a payment terminal. A semi-transparent logo is overlaid on the image, consisting of two overlapping shapes: a yellow one on top and a green one on the bottom. The text "payments strategy forum" is centered within the white semi-transparent area of the logo.

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Appendix III: High Level Target Architecture

NPA High Level Target Architecture



NPA High Level Target Architecture - Users

WS02

Name	Description
ASPSP Customers	<p>The full range of PSUs will be supported, their key use cases will be used to drive the design.</p> <ul style="list-style-type: none"> - Retail. (Instant Payments, DD/SO management) - Commercial. (High value, Bulk) - Corporate. Direct Access for Salary submission, DD Mandates - Government. (BACS grade 3) - Agency. (Indirect payments)
TPP	<p>Created under PSD2, TPPs will provide alternative channels and innovative payments, for multiple ASPSPs</p> <ul style="list-style-type: none"> - Hold the consent for payments and execute against ASPSP following authorisation - Can implement Request To Pay, using PSD2 APIs - Can provide Channel alternatives and Aggregation and disbursement solutions - ASPSP can be TPPs for their own customers
ASPSP	<p>Direct or Indirect Participants, holders of customer accounts</p> <ul style="list-style-type: none"> - Provide Payment Assurance APIs - Conversion of existing formats to single PUSH model - Manages interoperability across Overlay options
Clearing	<p>Provides coordination for PSP to PSP payments messaging</p> <ul style="list-style-type: none"> - Registry records valid PSP participants and roles managed by the FCA/NPSO, ISCD level reference data, CASS account transfers and BACS customer reference data - Assures validation and correct routing - Separates payments and associated messaging - Real time attended payments will be credited immediately to customer accounts with an accept response (Qualified Accept will be withdrawn) - Unattended and bulk payments will be acknowledged with separate refunds as necessary.
Settlement	<p>Single point of settlement control for all payment instructions</p> <ul style="list-style-type: none"> - Flexible settlement cycles supported by overlay type, to manage settlement risk - Each PSP will have a single BOE RCA Account - Dynamic Earmarking for each payment overlay type supported by the account

NPA High Level Target Architecture Components

WS02

Summary and Key Architecture changes

Name	Description
API	NPA builds on the PSD2/Open Banking APIs and security models. <ul style="list-style-type: none">- TPP are recorded in the Registry, allowed to hold consent per role- ASPSP manage customer authentication and authorisation- PSD2 will need extension to support specific use cases (variable amount, TRA)
ISO 20022	Message content will be based of ISO types <ul style="list-style-type: none">- NPA will support JSON syntax for API communications- 4/5AMLD will require that data is not truncated
Request to pay	The request equates to a PSD2 authorised consent held by the TPP <ul style="list-style-type: none">- Customers can change (amend, cancel, defer) consent with the TPP- Customers can withdraw authorisation directly with their ASPSP
Enhanced Data	Support for data content which can be captured by channels or APIs <ul style="list-style-type: none">- Current FPS supports limited additional reference data- ISO20022 supports additional data content (including images, cloud data storage references)- Payment messaging is enhanced for optimised business processing
Registry	Provides reference data (EISCD equivalent, CASS migrated accounts, BACS Reference data, PSP and TPP endpoints, roles and certificates) <ul style="list-style-type: none">- Managed by the NPSO- Data replicated to participants attended channels (< 10 min) and unattended channels (< 1 hr)
Overlay Services	Are approved by the NPSO and implemented on top of PUSH mechanisms <ul style="list-style-type: none">- Can be used to emulate existing scheme messages (e.g. FPS, SIPs)
Single Push Rail	Routes and manages attended and unattended payment instructions between participants <ul style="list-style-type: none">- Ensures that instructions finality rules are followed- Supports multiple overlay payment types, whilst maintaining resilience and safety
Network Connectivity	The network is in the competitive space and can be provided by competing telecom providers that comply with the technical standards and rules set by the NPSO.
Settlement Processing	Ensures BOE instruction finality rules are followed and interfacing to BOE RCA accounts <ul style="list-style-type: none">- Supplies only the required information for bank to bank transfers