

How does the OA Switchboard router work?

# OA Switchboard router

- **Routing via auto-cc**
- **Consortia routing**

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OA Switchboard Updates Core Router  
21 February 2023

## Publisher sends P1-message to institution\*) of first author's first affiliation



\*) The ROR id is required, otherwise the message can't be sent.

If the ROR id is available, but that institution is not a 'participant' (so, hasn't signed the Service Agreement, and doesn't have an account in OA Switchboard yet), there are two options:

- OA Switchboard knows the institution as 'organisation', and the message will get the status 'undelivered', OR
- OA Switchboard doesn't know the institution as 'organisation', and the message ends up in the Dead Letter Queue (DLQ)

# 2022 ROUTING VIA AUTO-CC

The OA Switchboard auto-cc feature sends a PIO (Public Information Only) version of that P1-message to the second author's first affiliation\*)



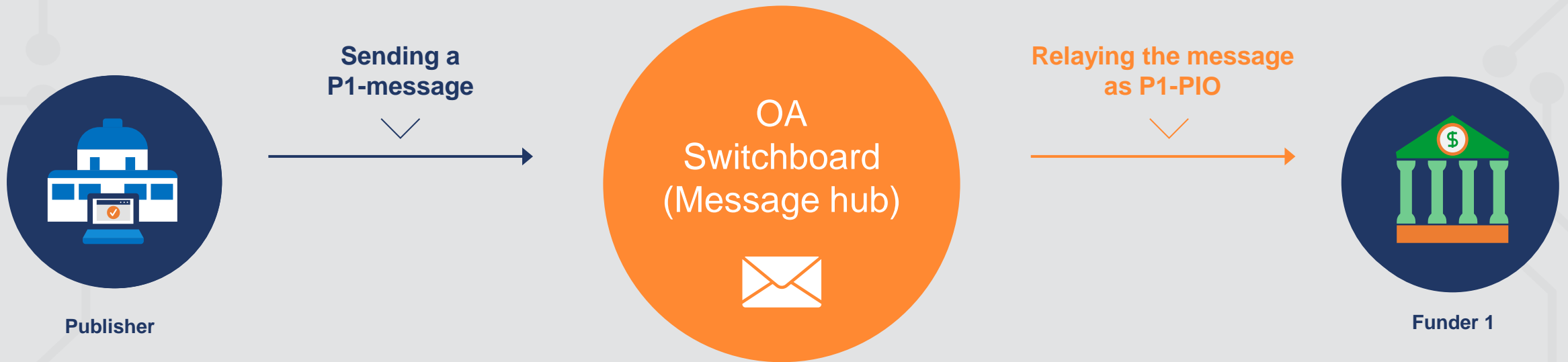
\*) Provided the publisher has 'auto-CC' switched on AND the publisher provided a ROR id in the original P1-message for the affiliation of the second author

The OA Switchboard auto-cc feature sends a PIO (Public Information Only) version of that P1-message to the n<sup>th</sup> author's first affiliation\*)



\*) Provided the publisher has 'auto-CC' switched on AND the publisher provided a ROR id in the original P1-message for the affiliation of the n<sup>th</sup> author

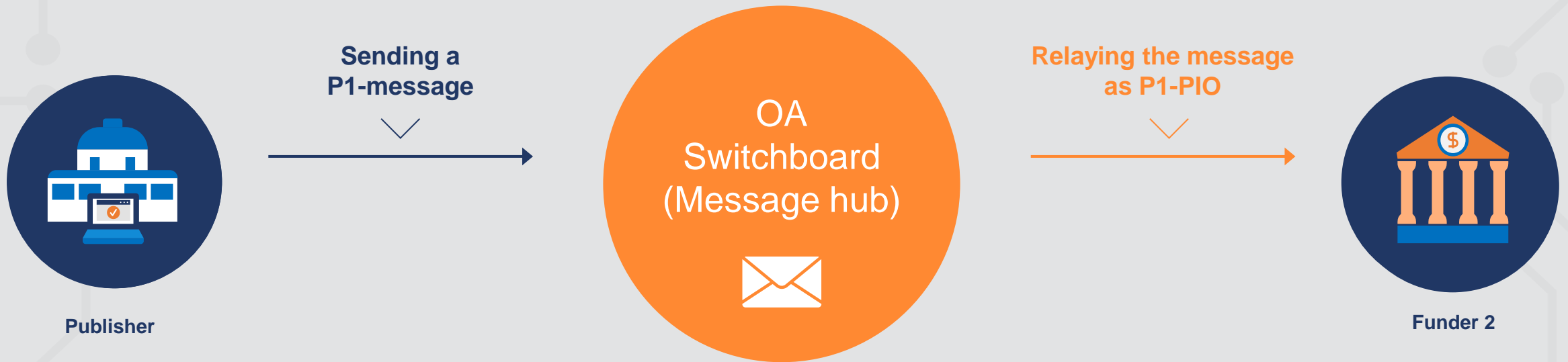
The OA Switchboard auto-cc feature sends a PIO (Public Information Only) version of that P1-message to the first research funder\*\*)



\*\*) Provided the publisher has 'auto-CC' switched on AND the publisher provided a ROR id in the original P1-message for the first research funder

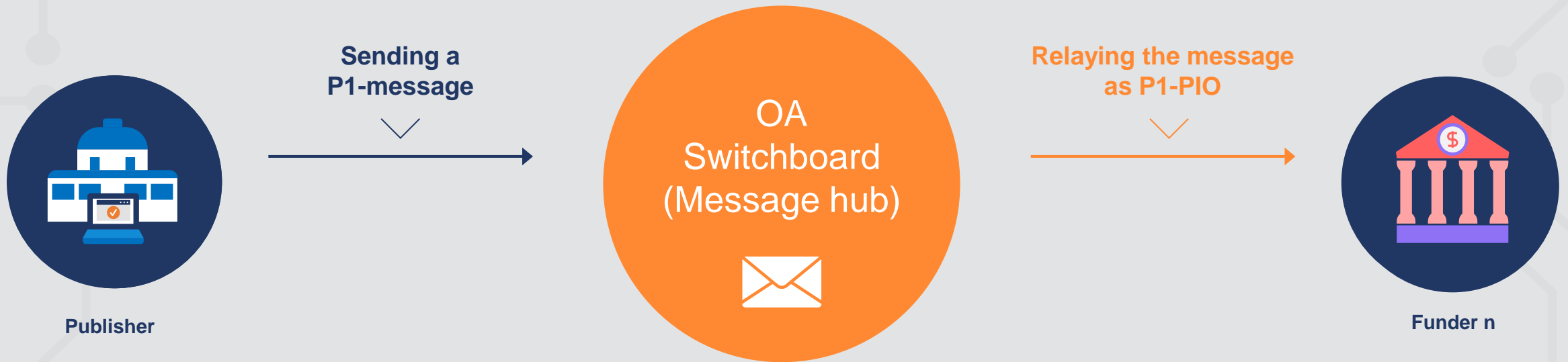


The OA Switchboard auto-cc feature sends a PIO (Public Information Only) version of that P1-message to the second research funder\*\*)



\*\*) Provided the publisher has 'auto-CC' switched on AND the publisher provided a ROR id in the original P1-message for the second research funder

The OA Switchboard auto-cc feature sends a PIO (Public Information Only) version of that P1-message to the n<sup>th</sup> research funder\*\*)



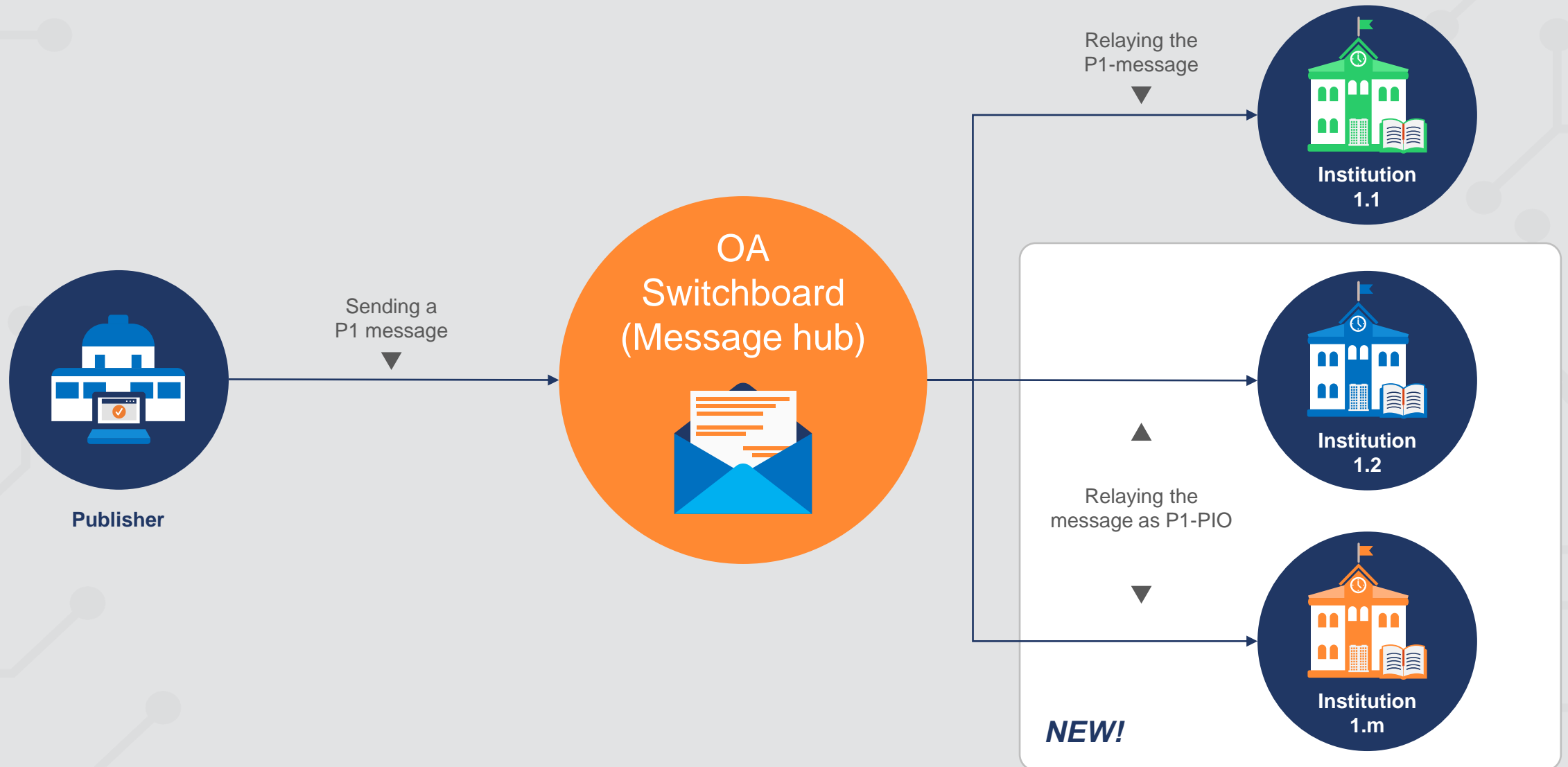
\*\*) Provided the publisher has 'auto-CC' switched on AND the publisher provided a ROR id in the original P1-message for the n<sup>th</sup> research funder

# *CORE ROUTER UPDATE* (February 2023)

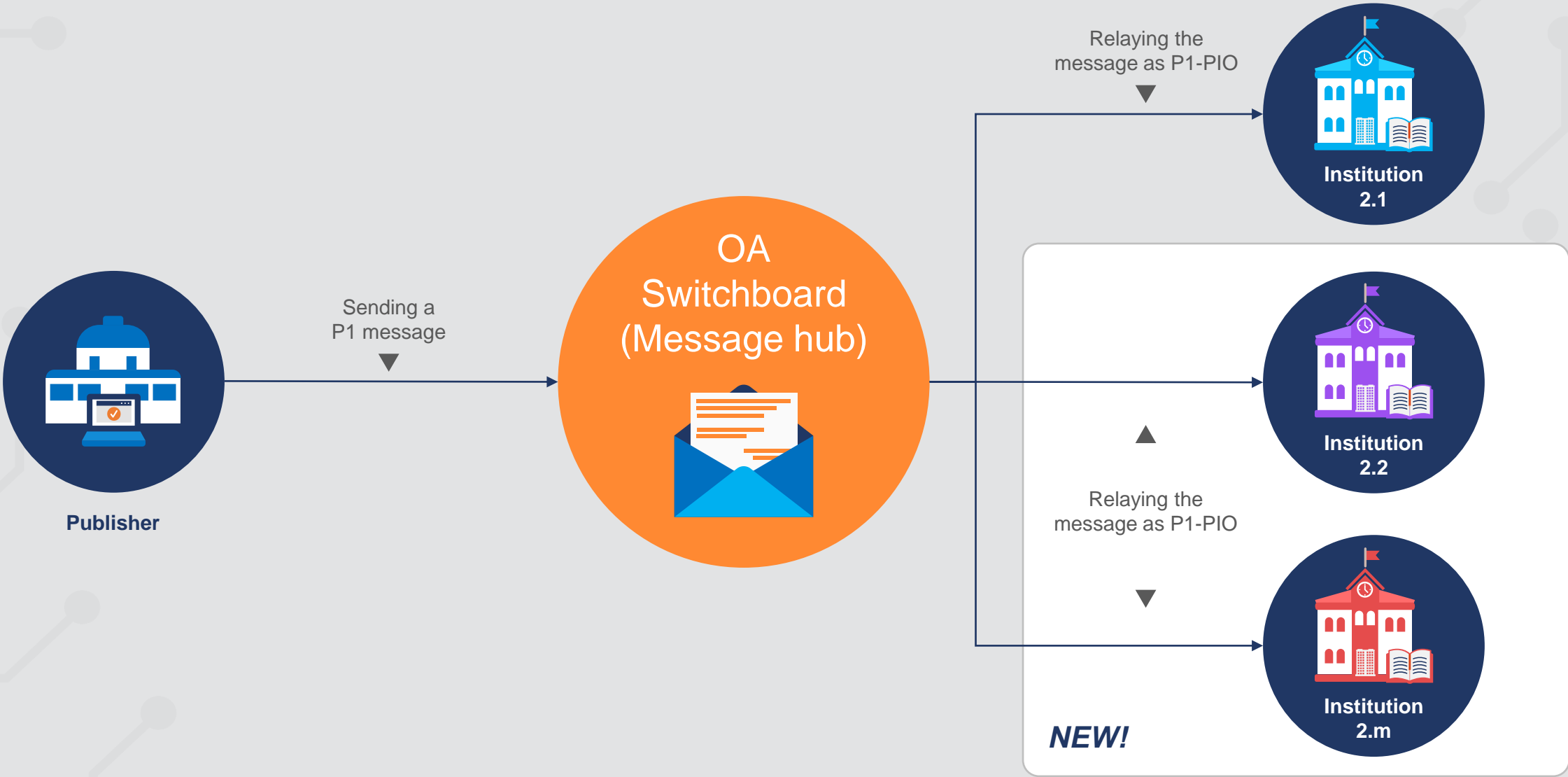
ROUTING VIA AUTO-CC

*--- NEW! ---*

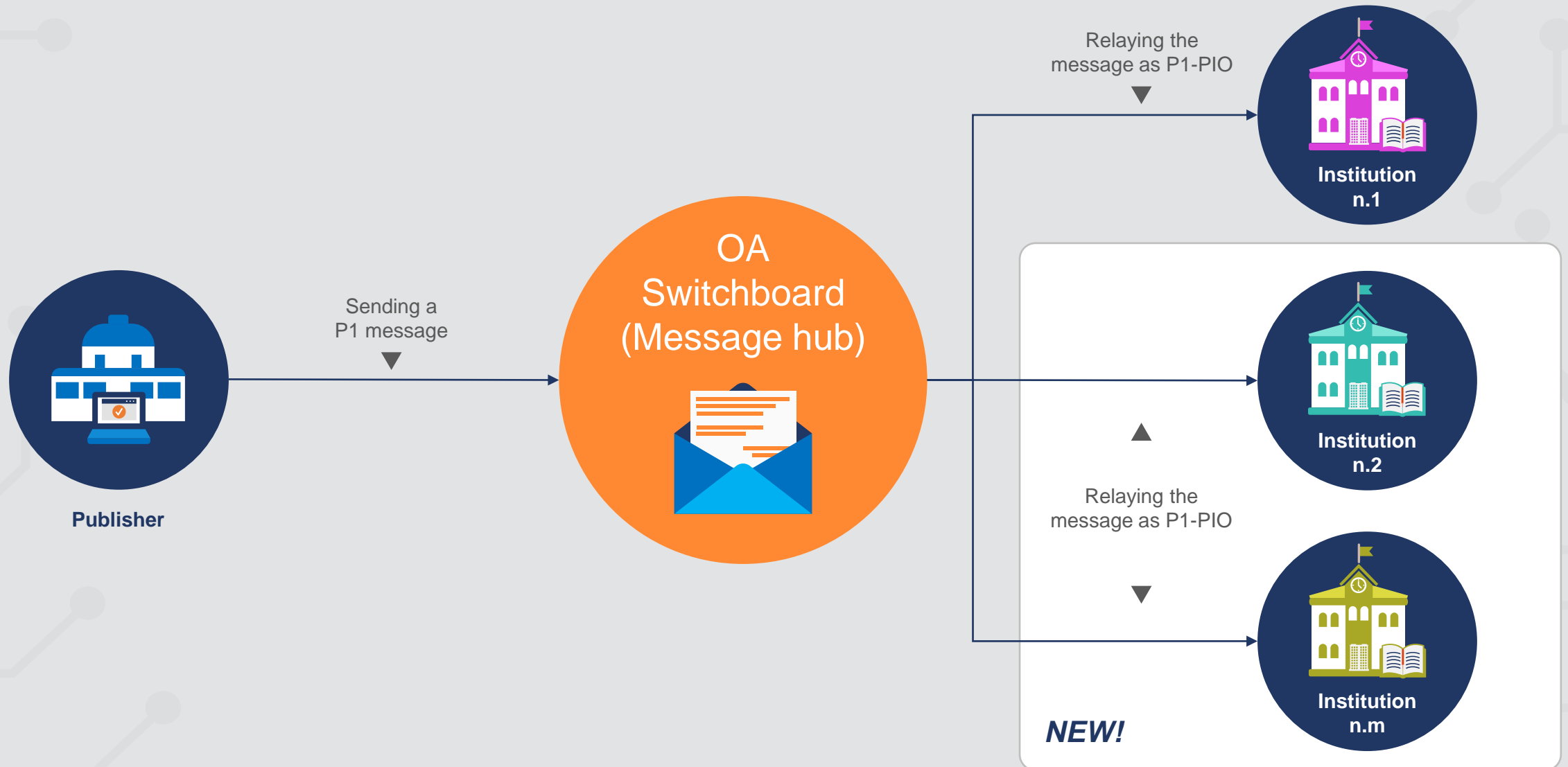
Publisher sends P1-message to institution of first author's first affiliation, the updated OA Switchboard auto-cc feature sends a PIO (Public Information Only) version of that P1-message now also to the first author's second to m<sup>th</sup> affiliation



Publisher sends P1-message to institution of first author's first affiliation, the updated OA Switchboard auto-cc feature sends a PIO (Public Information Only) version of that P1-message now also to the second author's second to m<sup>th</sup> affiliation

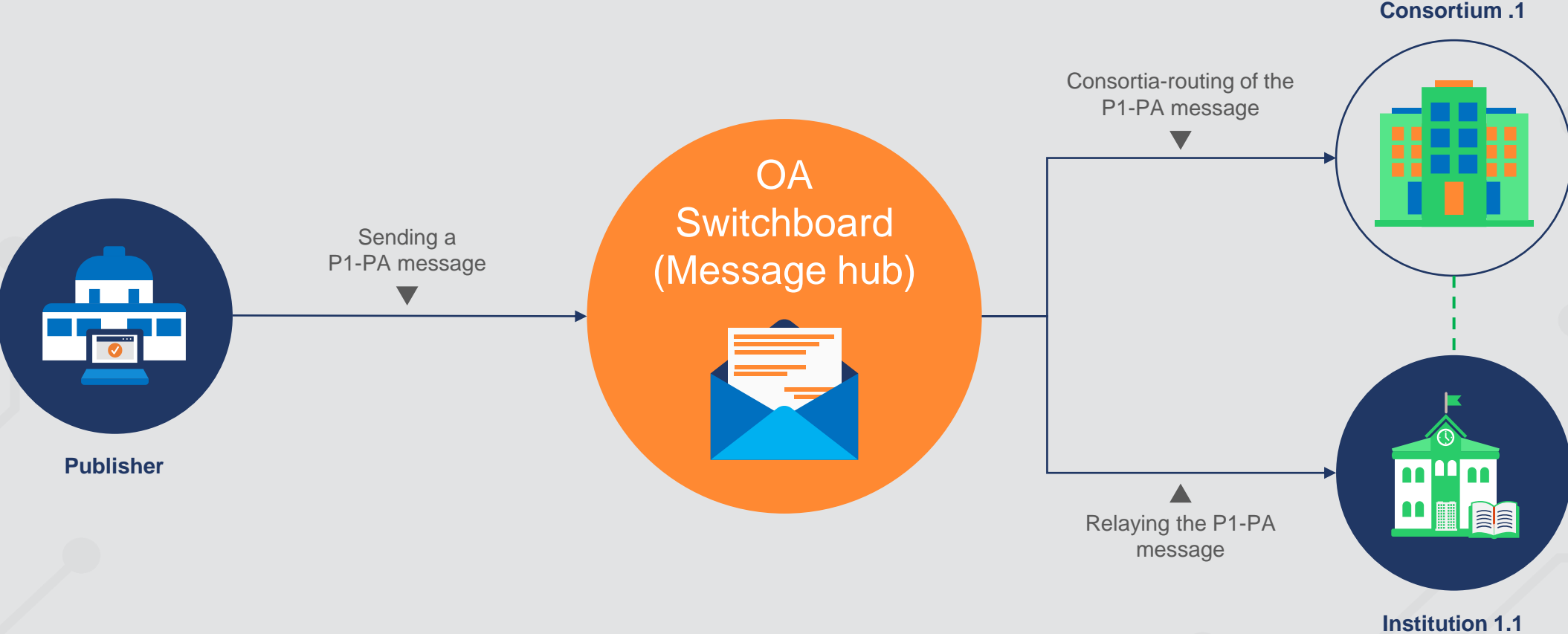


Publisher sends P1-message to institution of first author's first affiliation, the updated OA Switchboard auto-cc feature sends a PIO (Public Information Only) version of that P1-message now also to the  $n^{\text{th}}$  author's second to  $m^{\text{th}}$  affiliation



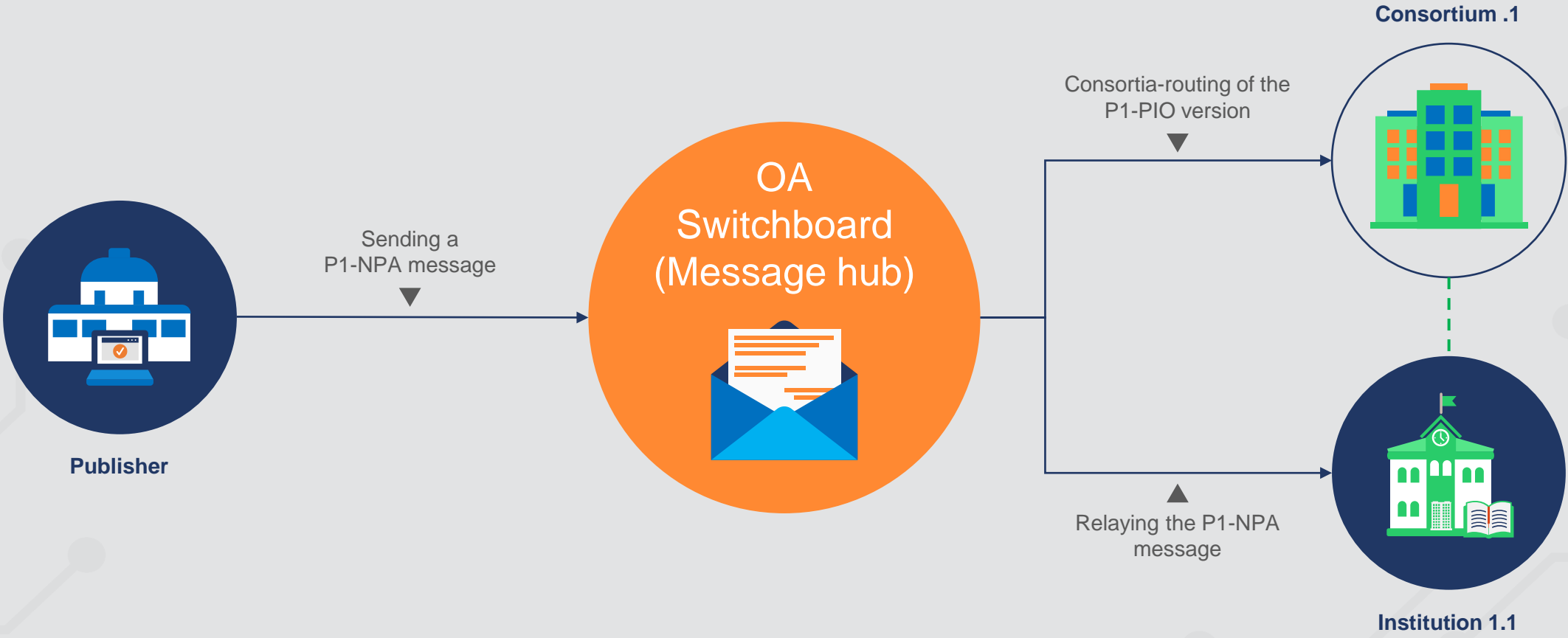
# 2022 CONSORTIA ROUTING

**Publisher sends 'Prior Agreement' (PA) P1-message to institution of first author's first affiliation, OA Switchboard delivers the same to consortium**

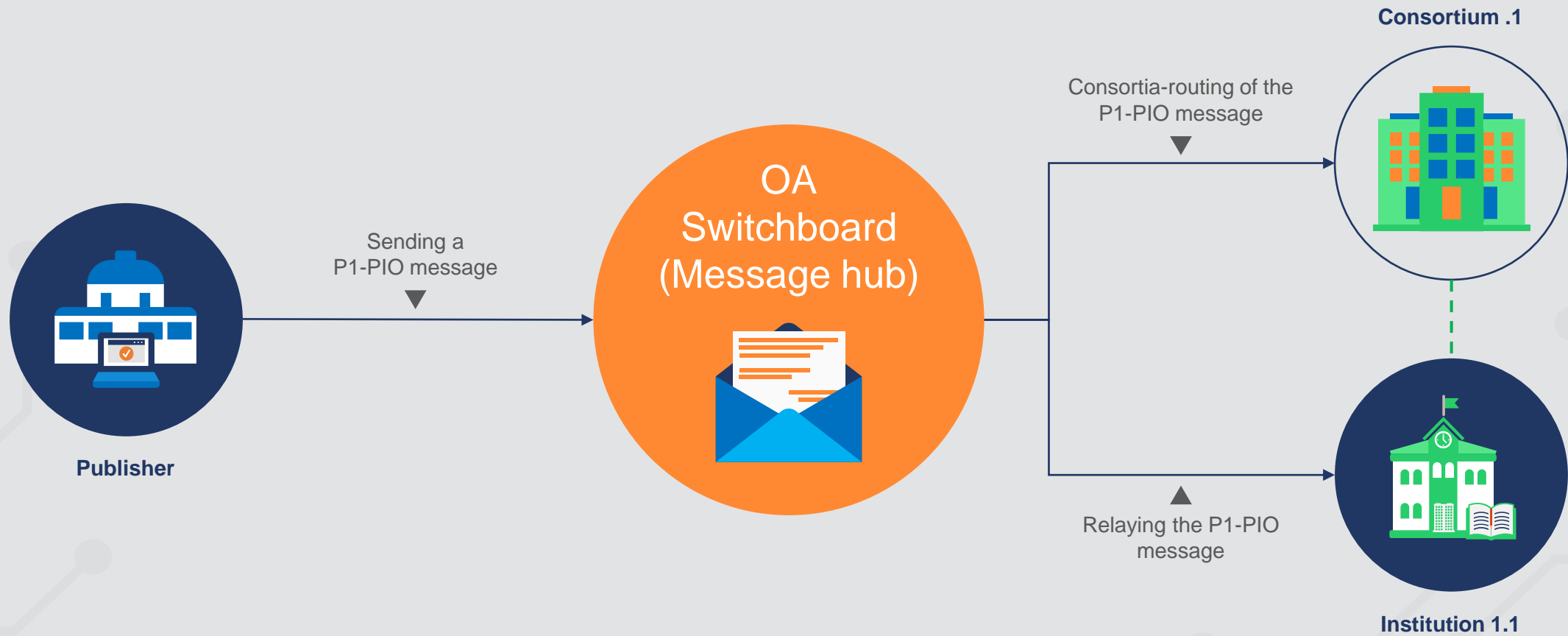




**Publisher sends 'No-Prior-Agreement' (NPA) P1-message to institution of first author's first affiliation, OA Switchboard delivers a P1-PIO version of that P1-message to consortium**



**Publisher sends P1-PIO message to institution of first author's first affiliation,  
OA Switchboard delivers the same to consortium**

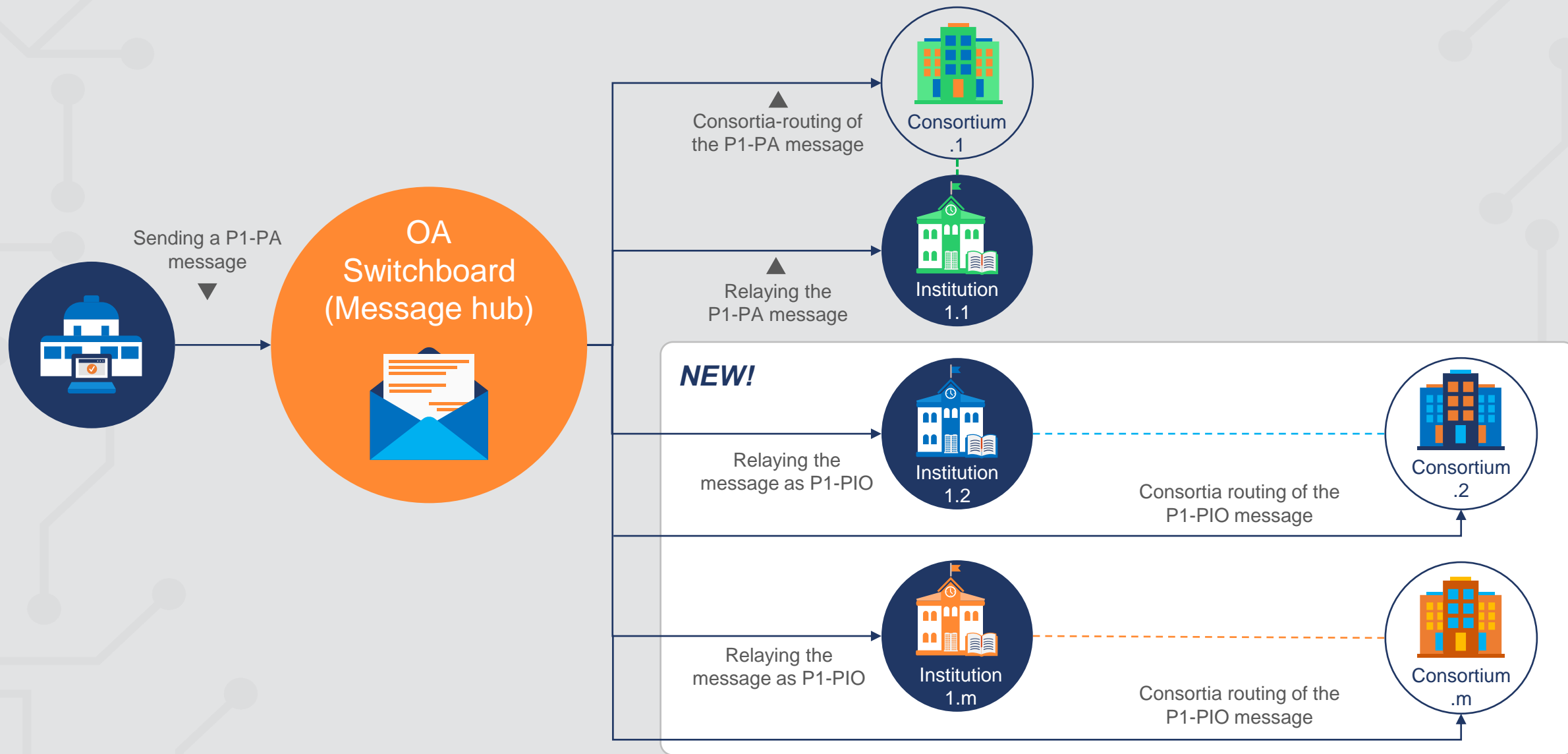


# *CORE ROUTER UPDATE* (February 2023)

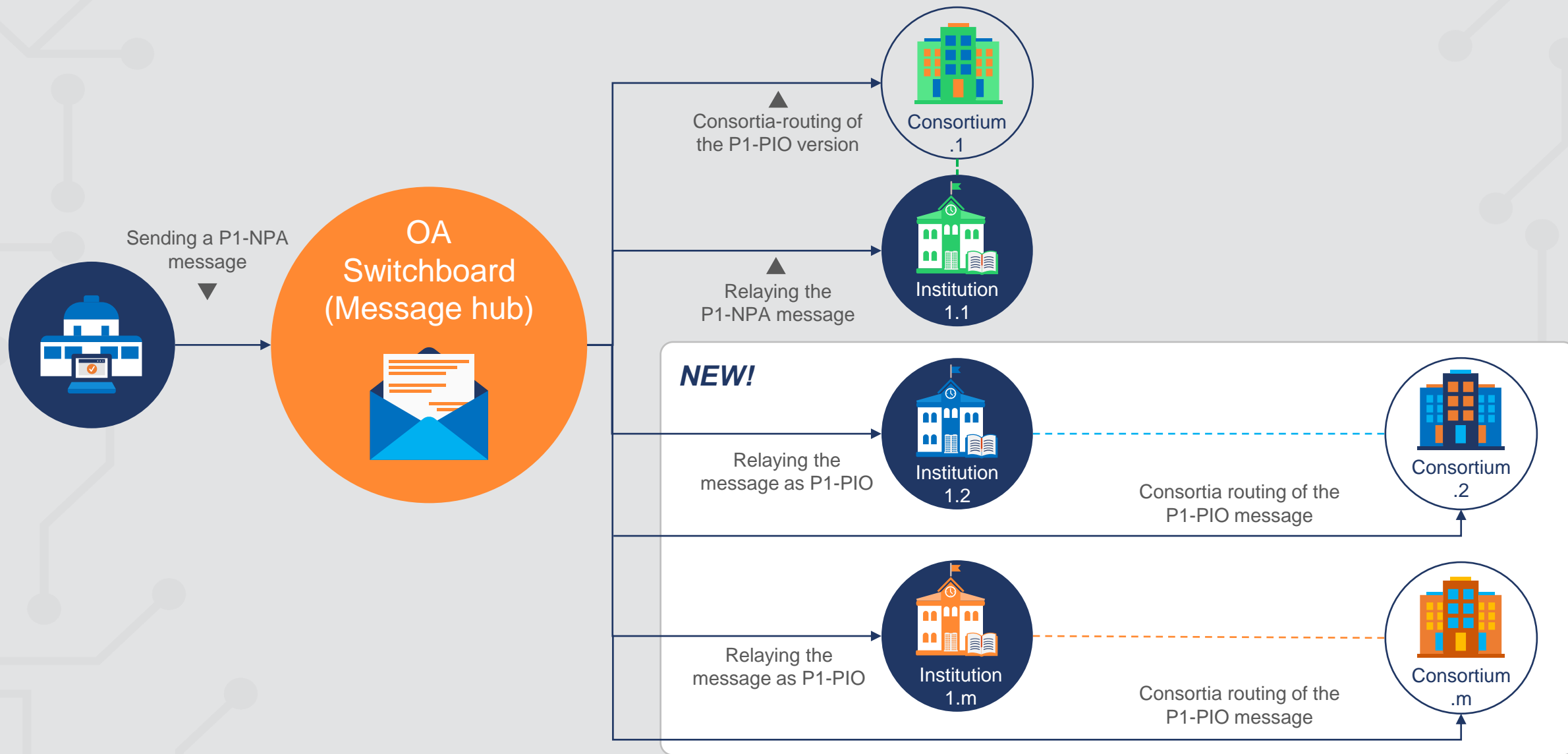
## CONSORTIA ROUTING

*--- NEW! ---*

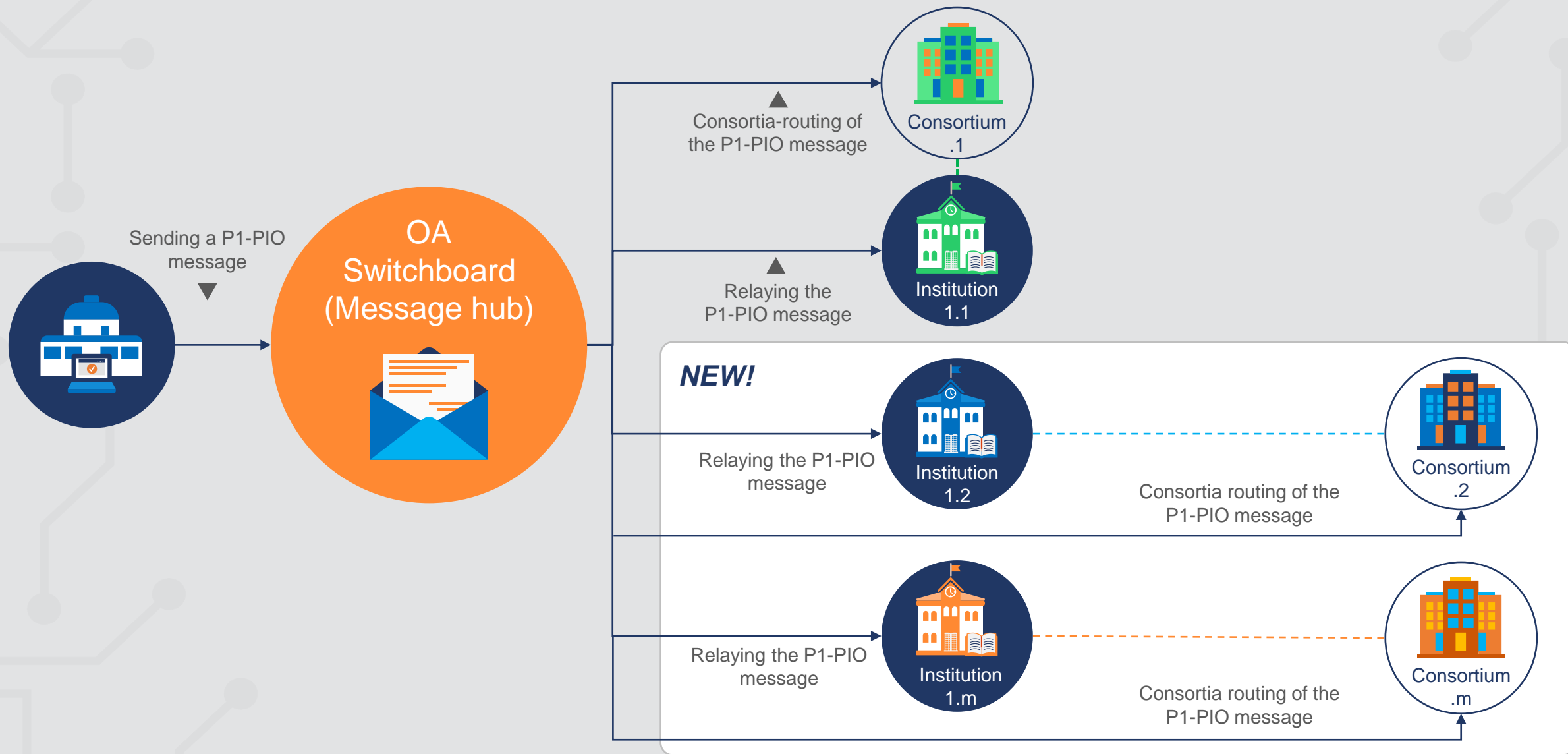
Publisher sends 'Prior Agreement' (PA) P1-message to institution of first author's first affiliation, OA Switchboard delivers the same to consortium, and the updated OA Switchboard consortia routing now also delivers a P1-PIO version of that message to consortia related to the second to m<sup>th</sup> affiliation of the first author



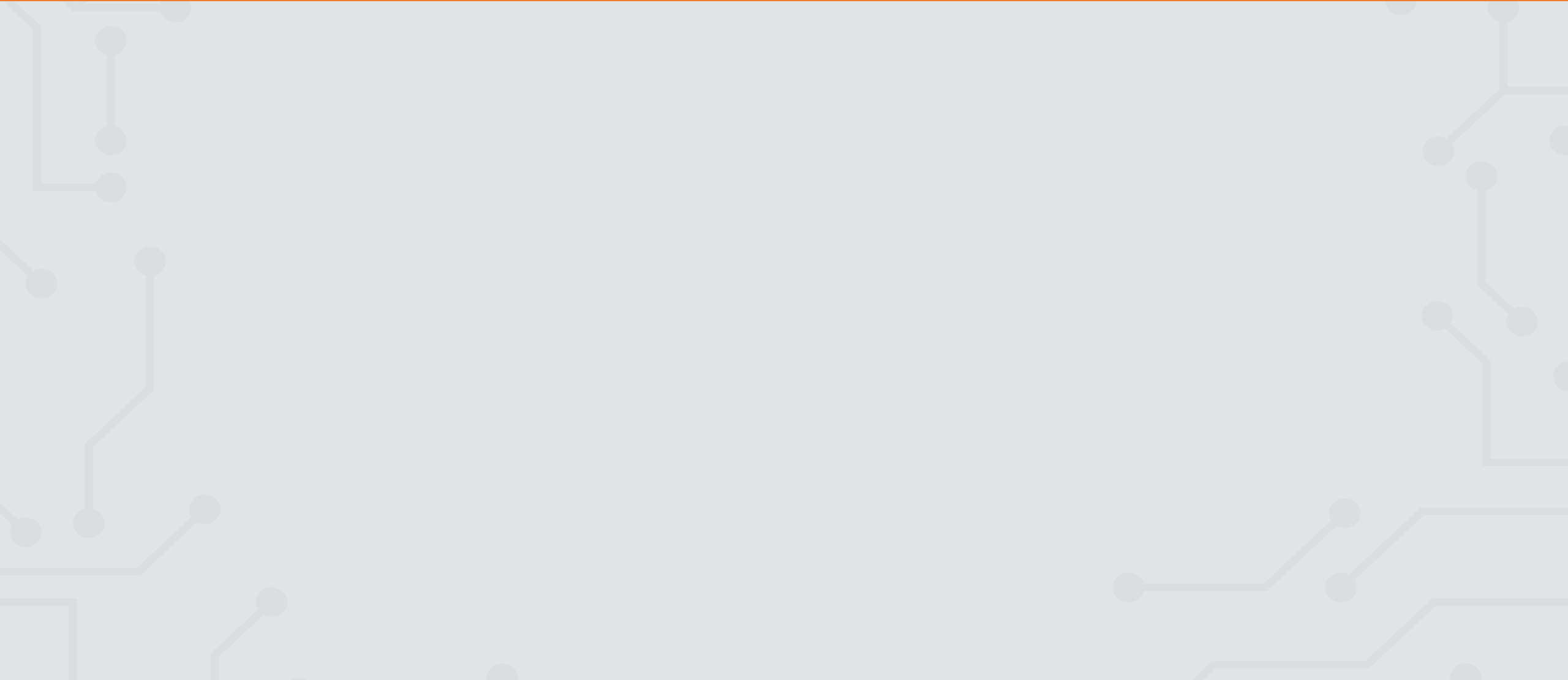
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**This consortia routing of P1-PIO messages also works for the first to  $m^{\text{th}}$  affiliation  
of the second to  $n^{\text{th}}$  author**

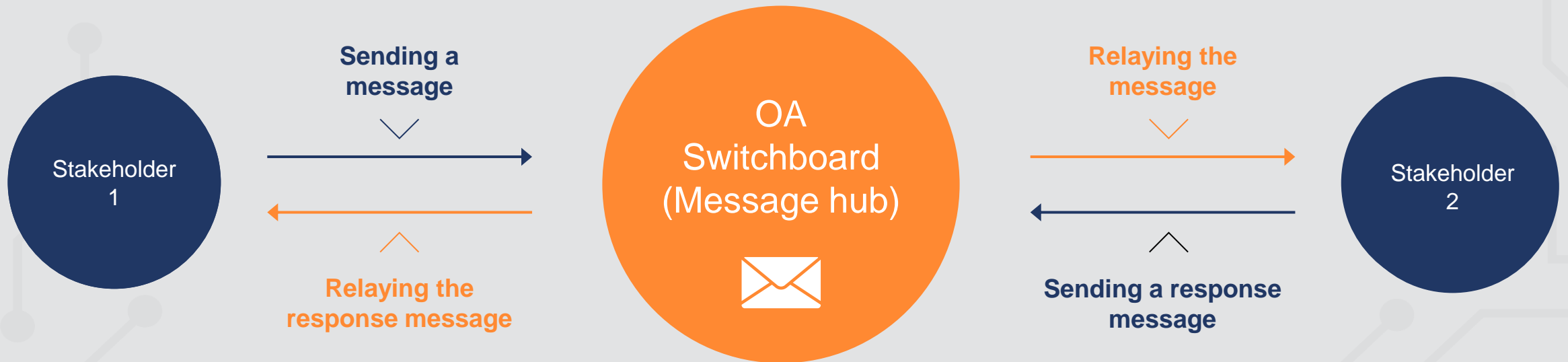


# APPENDIX: CONTEXT



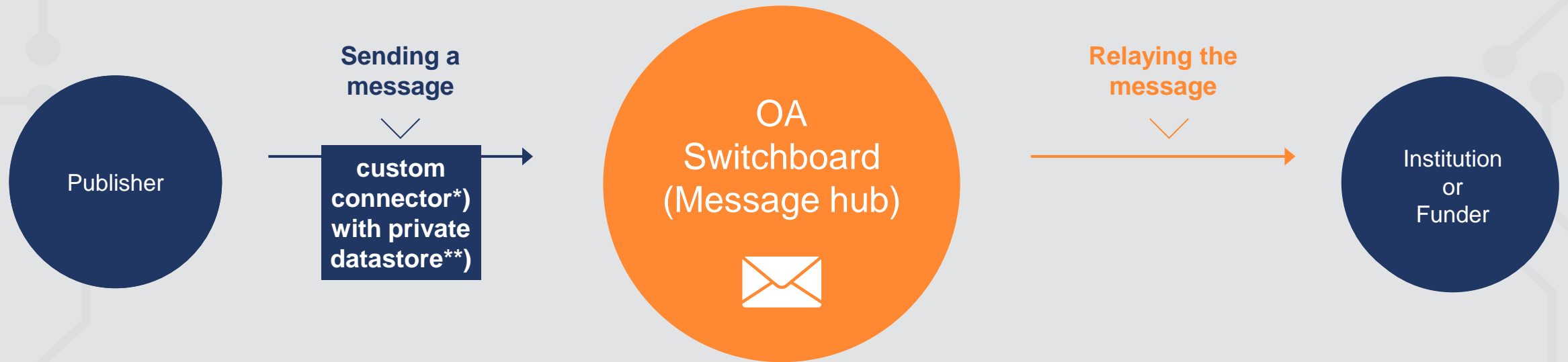
# Central metadata exchange hub

Standardised messaging protocol and shared infrastructure



# USE CASE 1: Publication notification and reporting

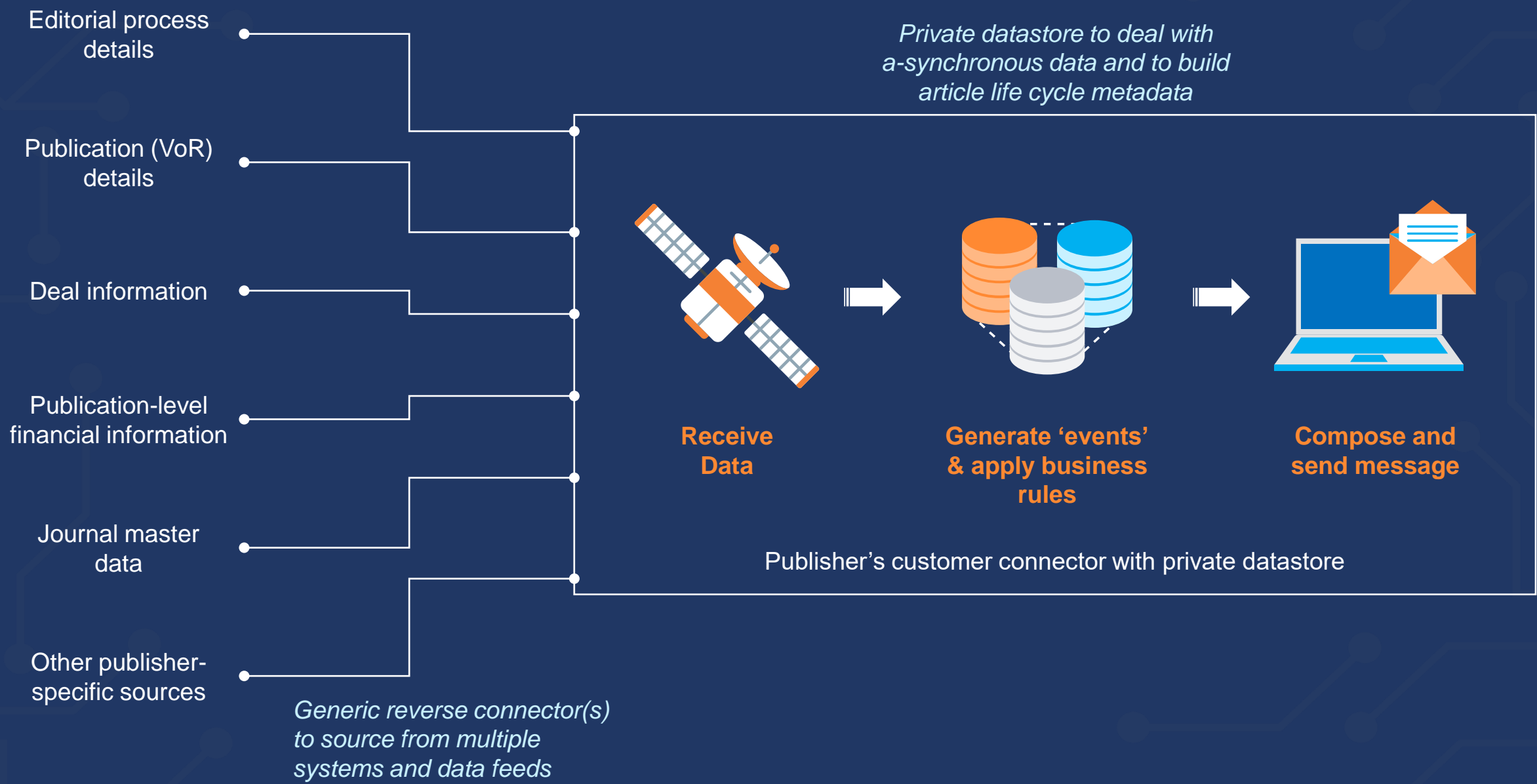
Current set-up for most OA Switchboard publishers



\*) Often including the 'smart matching' module to obtain ROR id's (on author affiliations and research funders) from:

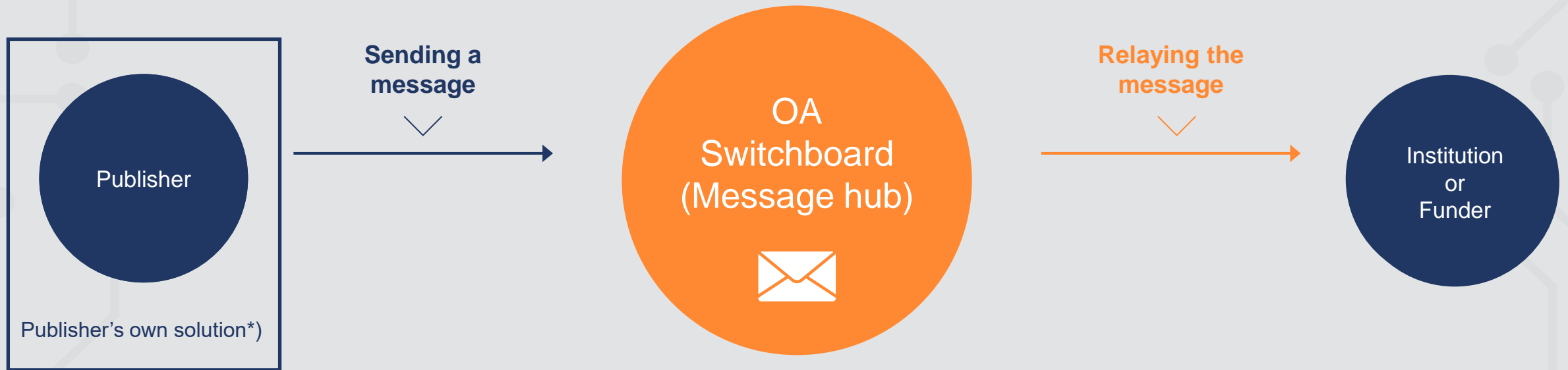
- Free text (via ROR API)
- Ringgold id (based on publisher's Ringgold license, if in place)
- ORCID id (via ORCID API)

\*\*\*) Sometimes including a UI ('publication tracker') for management information



# USE CASE 1: Publication notification and reporting

Set-up for publishers connecting to the OA Switchboard API directly



\*) Publishers, connecting to the OA Switchboard API directly, have the option to first make use of the 'suggester' function\*\*) of the OA Switchboard, before determining a ROR id for the 'send-to'. They can obtain ROR id's (on author affiliations and research funders) from:

- Free text (via ROR API)
- Ringgold id (based on publisher's Ringgold license, if in place)
- ORCID id (via ORCID API)

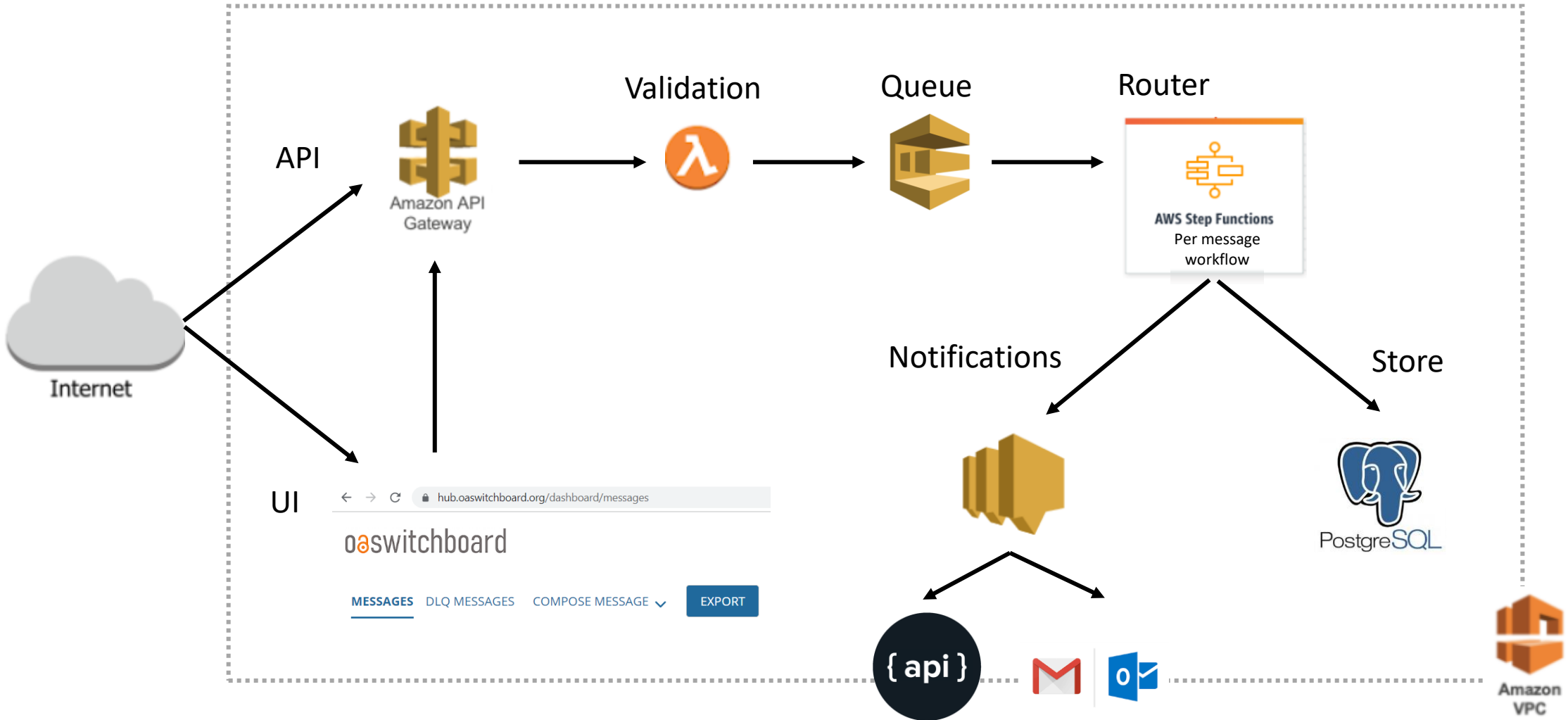
\*\*) Also (with free text to ROR id via the ROR API only) available in the OA Switchboard UI, for those publishers composing messages manually.

# APPENDIX: *CORE ROUTER UPDATE*

## UPDATED (RELEVANT ONLY) SLIDES

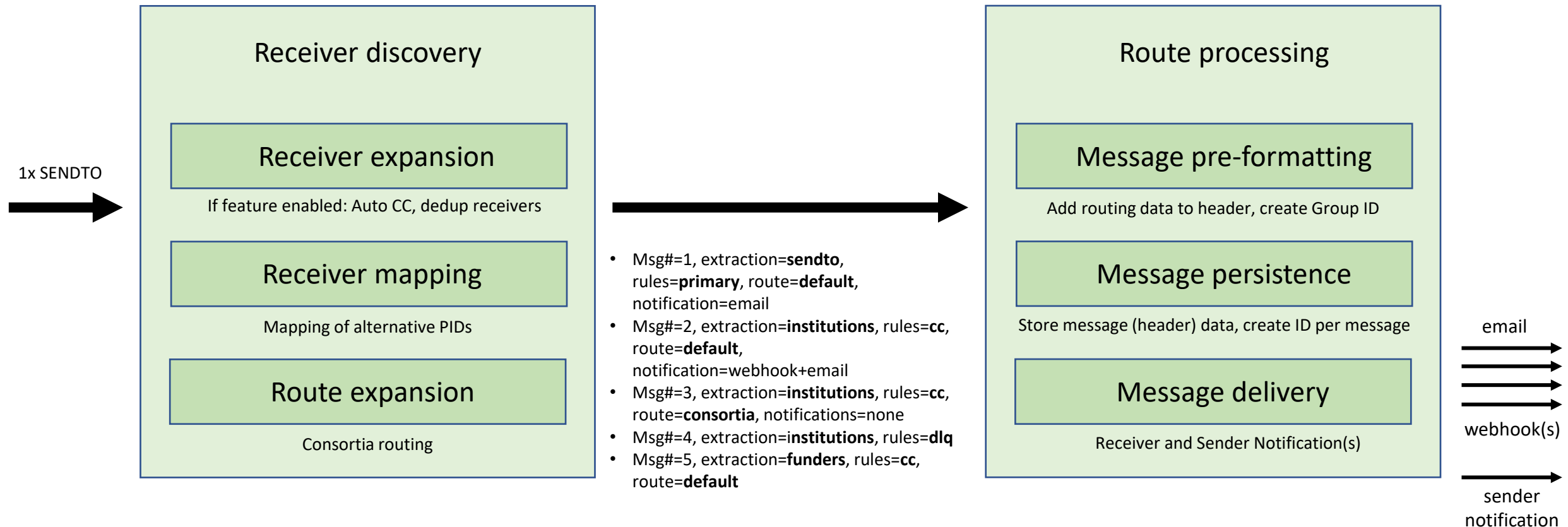
AS USED IN MESSAGE STRUCTURE WORKING GROUP MEETING (6 FEBRUARY 2023)

# Message lifecycle



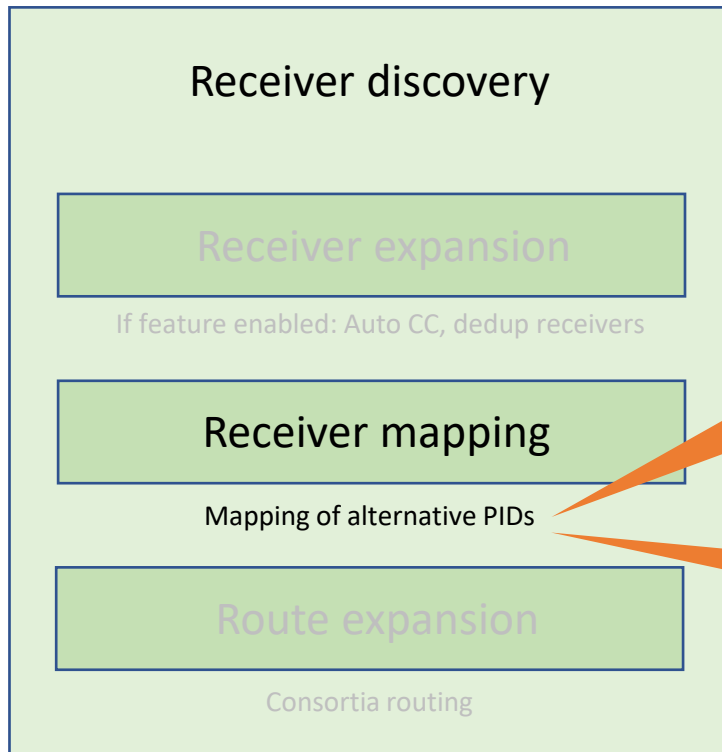
# Router per message workflow

The router workflow consists of 2x3 steps



# What happens in step 2?

What does 'mapping of alternative PIDs' mean?



## If author affiliation in P1-message includes:

- Free text only: It is not mapped to anything (that affiliation doesn't receive a P1)
- Ringgold id: It is not mapped to anything (that affiliation doesn't receive a P1)
- ISNI: It is mapped to a ROR id, but only for organisations known in OA Switchboard. The P1-message (PIO) is sent to that affiliation.

## If research funder in P1-message includes:

- Free text only: It is not mapped to anything (that funder doesn't receive a P1)
- Fundref id: It is mapped to ROR id, but only for organisations known in OA Switchboard. The P1-message (PIO) is sent to that research funder.