Building a future for TOMP-API

Or "The perfect House for the TOMP-WG"
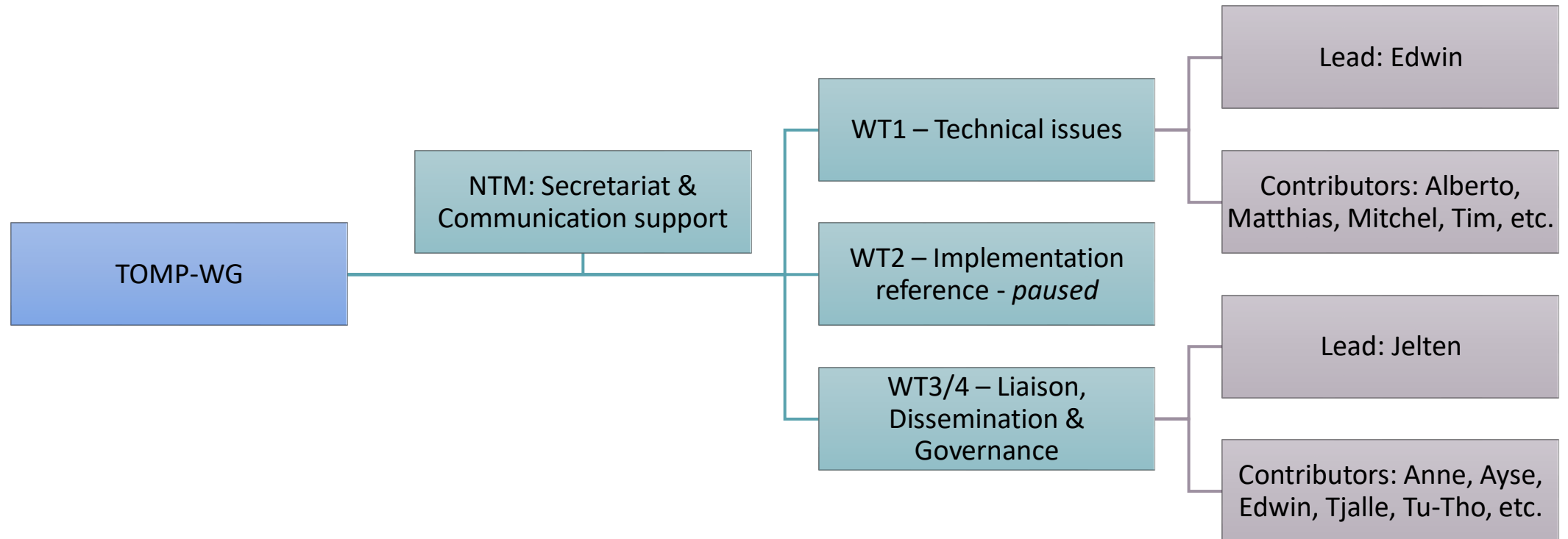
26 June 2024 – Edwin & Tu-Tho

OUTLINE

- The TOMP-WG today

- The TOMP-WG tomorrow

- Potential houses
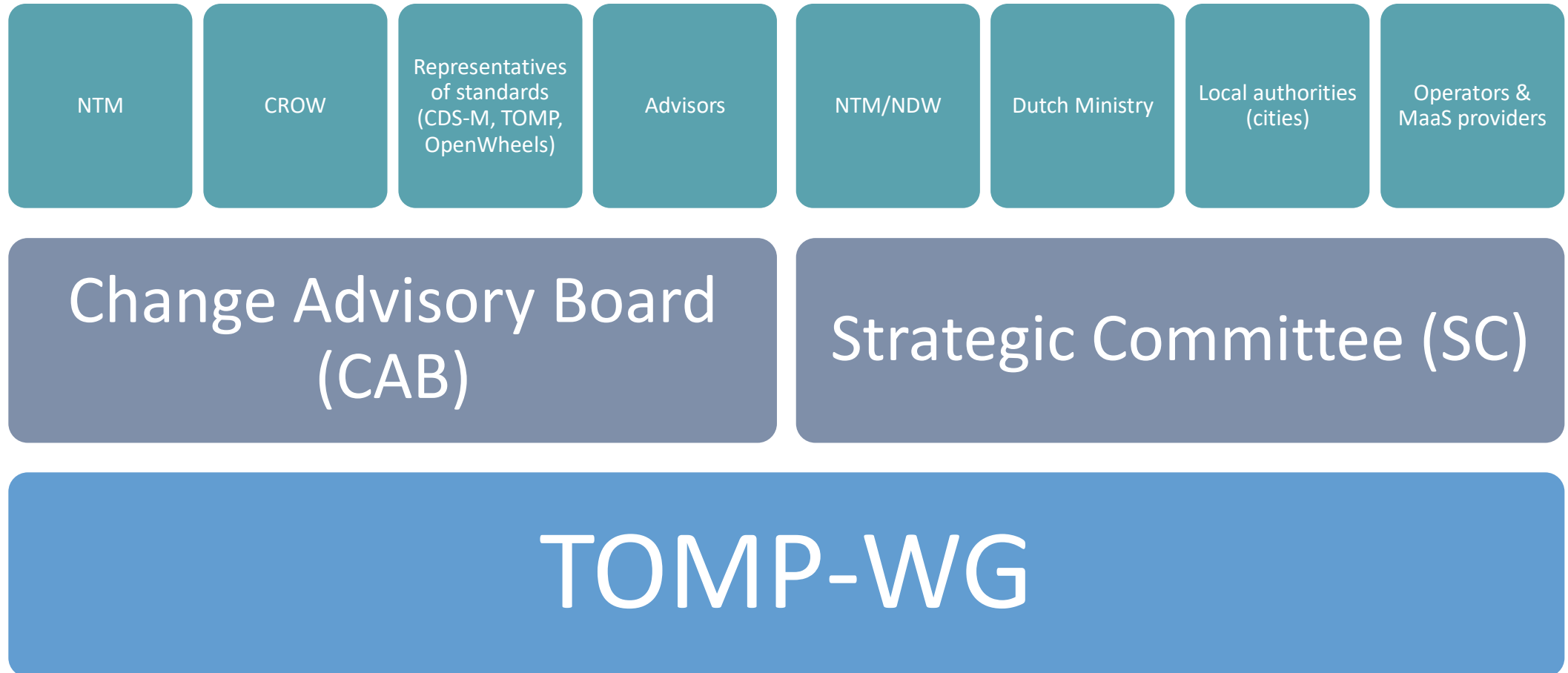
- Our recommendation

- Funding & Expenses

- Next steps

THE TOMP-WG TODAY

TOMP-WG and its WTs

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                                                    ┌─────────────────┐
                                          ┌─────────│  Lead: Edwin    │
                          ┌──────────────┐│         └─────────────────┘
                          │ WT1 –        ││         ┌─────────────────┐
                  ┌───────│ Technical    │┴─────────│ Contributors:   │
                  │       │ issues       │          │ Alberto,        │
┌──────────┐ ┌────────────┐└──────────────┘          │ Matthias,       │
│          │ │ NTM:       │┌──────────────┐          │ Mitchel, Tim,   │
│ TOMP-WG  │─│ Secretariat││ WT2 –        │          │ etc.            │
│          │ │ & Comm.    ││ Implementation│         └─────────────────┘
└──────────┘ │ support    ││ reference -  │         ┌─────────────────┐
             └────────────┘│ paused       │─────────│  Lead: Jelten   │
                          └──────────────┘          └─────────────────┘
                          ┌──────────────┐          ┌─────────────────┐
                  └───────│ WT3/4 –      │──────────│ Contributors:   │
                          │ Liaison,     │          │ Anne, Ayse,     │
                          │ Dissemination│          │ Edwin, Tjalle,  │
                          │ & Governance │          │ Tu-Tho, etc.    │
                          └──────────────┘          └─────────────────┘
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- **TOMP-WG**
- **NTM: Secretariat & Communication support**
- **WT1 – Technical issues**
  - Lead: Edwin
  - Contributors: Alberto, Matthias, Mitchel, Tim, etc.
- **WT2 – Implementation reference - *paused***
- **WT3/4 – Liaison, Dissemination & Governance**
  - Lead: Jelten
  - Contributors: Anne, Ayse, Edwin, Tjalle, Tu-Tho, etc.

TOMP-WG, CAB & SC

NTM	CROW	Representatives of standards (CDS-M, TOMP, OpenWheels)	Advisors	NTM/NDW	Dutch Ministry	Local authorities (cities)	Operators & MaaS providers

Change Advisory Board (CAB)

Strategic Committee (SC)

TOMP-WG

Change Advisory Board (CAB)

Their role

- **Advise the Strategic Committee** *(originally reported to the SC)*

- **Evaluate the impact of changes done to TOMP-API and to all other standards**

Who they are

- Evelien Blom (9292 - voorzitter)
- Irma Verschuur (NTM – programmasecretaris)
- Gemma Schepers (gem. Amsterdam)
- Stefan Bollars (Gaiyo)
- Dirk Jan de Haan (Enigma Consulting)
- Ayse Hilal Öcal (NTM)
- Rosanne Klerx (NTM)
- Eddy Borremans (Nazza)
- Mark Verbeet (Samenwerkingsprogramma Deelmobiliteit)
- Dani Sprecher (MyWheels)
- Ronald van de Weerd (CROW)
- Arthur Keesen (NTM, informatie architect)

Strategic Committee (SC)

Their role

- Has under their wing
  - CDS-M
  - OpenWheels
  - TOMP-API

- Long-term vision (*coming from original non-binding governance body*)

- Funding opportunities

Who they are

- Nico van Paridon (huidige voorzitter)
- Chris de Vries (nieuwe voorzitter)
- Irma Verschuur (NTM – programmasecretaris)
- Joost Mortier (9292)
- Hedy Borreman (TCA Taxi)
- Marco Snel (Arriva)
- Michel Mostert (Rotterdam)
- Evelien Blom (9292)
- Bernadette van Doorn (Dutch Ministry)
- René Pijpers (Limburg Province)

THE TOMP-WG TOMORROW

THE TOMP-WG TOMORROW IN ITS *NEW* HOUSE
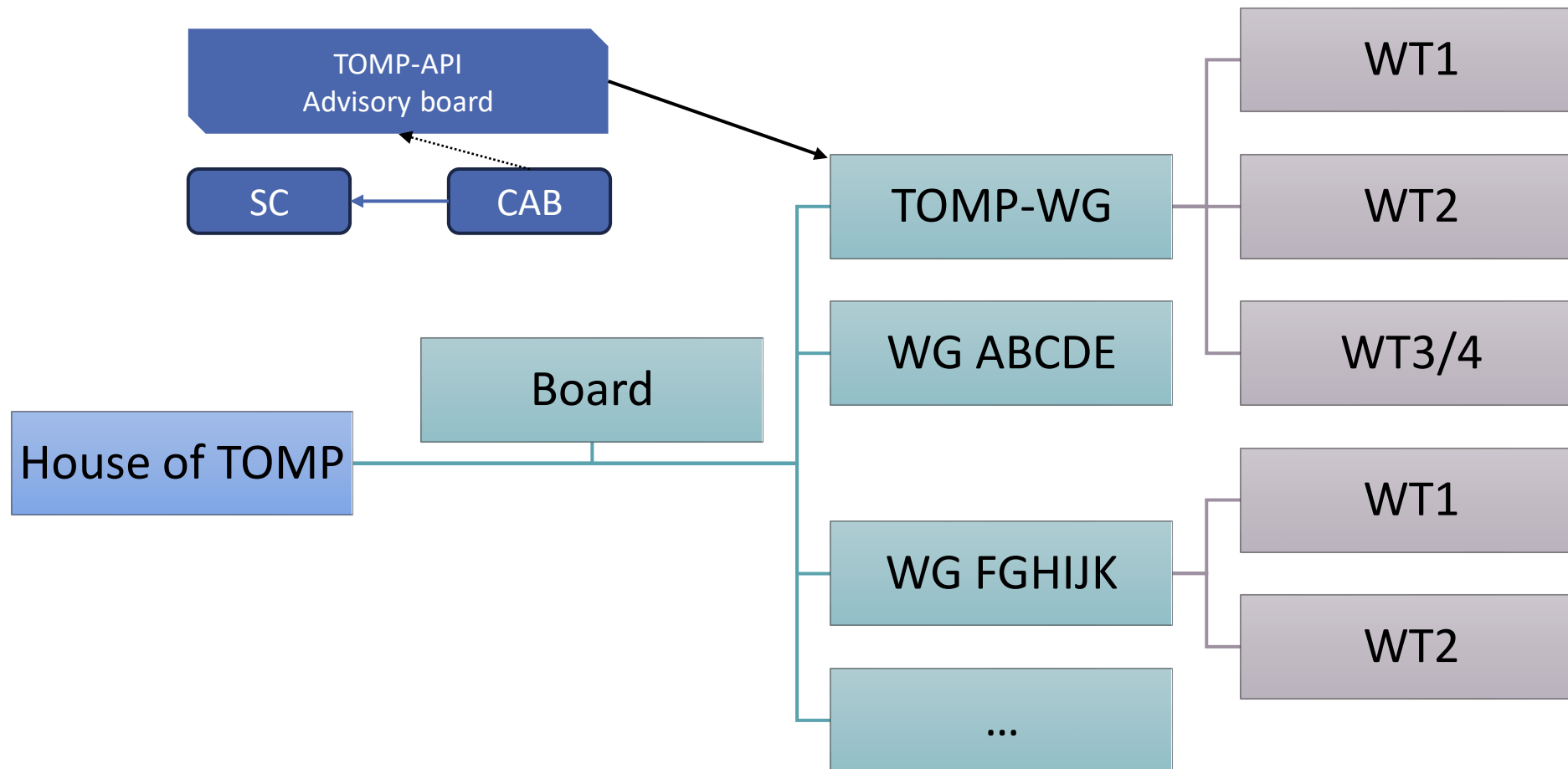
The House of TOMP

Main criteria

- Non-profit entity with headquarters in a Member State of Europe
- Access to
  - European institutions
  - National bodies (NAPs & Ministries)
- Neutrality for
  - TOMP architects & contributors
  - Anyone from the open-source community

Its main roles

- WG facilitation
  - Active support for dissemination
  - Support in all technical work, including future development
- Provider of
  - Collaborative tools
  - Administration & Finance management
- Governance facilitation
  - TOMP-API Advisory Board

The governance of the House of TOMP itself

Board — Supervises & Advises → House of TOMP (NPO)

Elect

Fund & Support

Members of the non-profit organisation

Partners / Sponsors

Public org. A	Private org. A
Public org. B	Private org. B
Public org. C	Private org. C

Org. A	Org. D
Org. B	Org. E
Org. C	Org. F
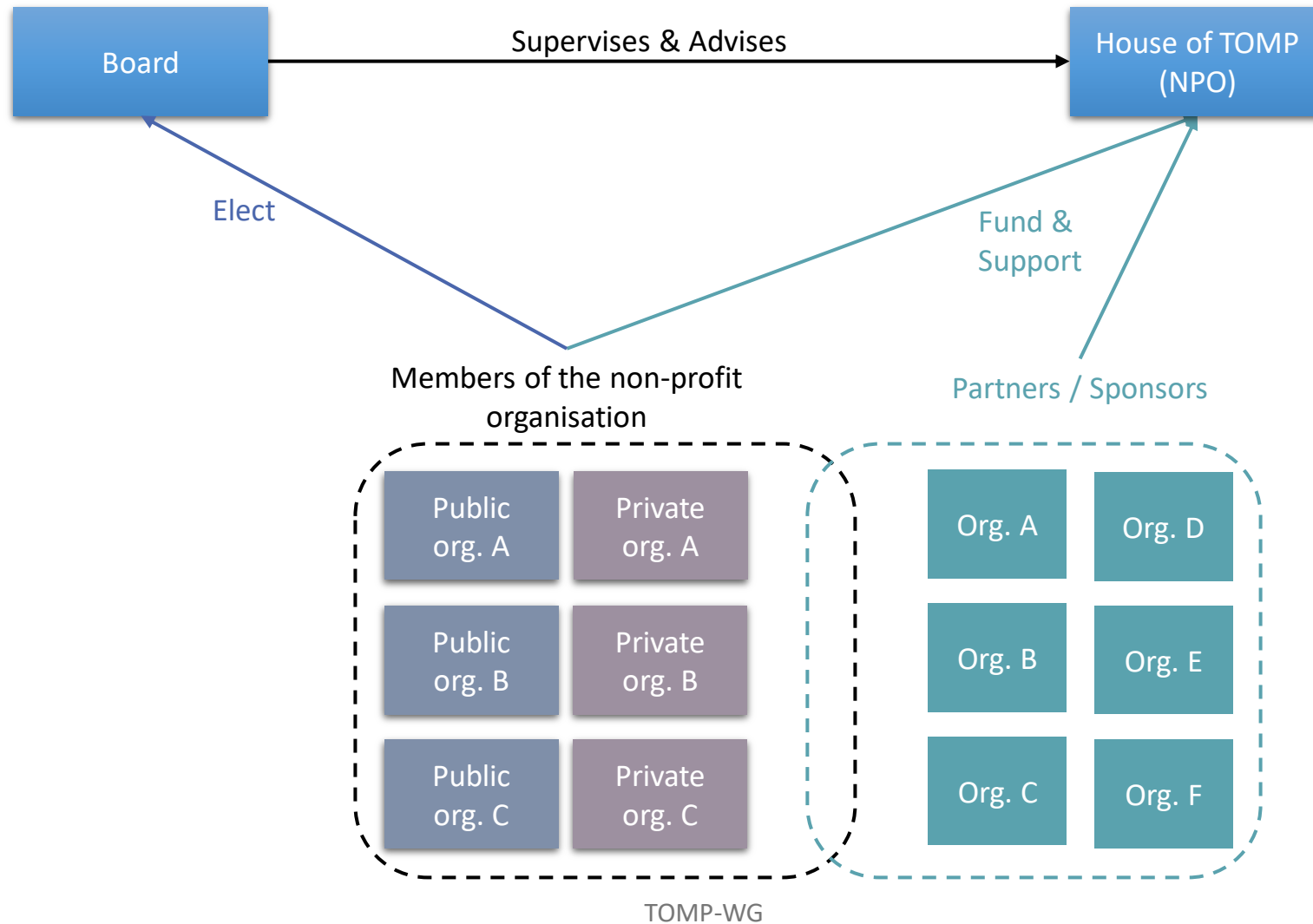
The TOMP-API Advisory Board

Who

- Number of seats to be defined
- A mix of elected & nominated members (*can be from CAB & SC*)
- A balance of private & public org.

Its main roles

- Governance of the TOMP-API
  - Roadmap
  - Funding opportunities
- Supporter of the TOMP-WG
  - Technical work
  - Dissemination

Elected by the members of the non-profit organisation

Public org. A	Private org. A
Public org. B	Private org. B

Permanent seats to ensure standards interoperability

| Standard A | Standard B |

THE CONTRIBUTORS TO THE TOMP-API WG

WHO

- Members of the House of TOMP

- Partners & Sponsors of the House of TOMP

- From the open-source community

THEIR ROLES

- Contribution to
  - Technical work
  - Dissemination
  - Funding opportunities

- Can also choose to
  - Lead and/or Contribute to a WT
  - Be part of the TOMP-API governance, by becoming a member of House of TOMP

Potential houses

POTENTIAL HOUSE: MOBILITYDATA

STRENGTHS

- First declared candidate
- Promoter of TOMP-API outside EU
- Willingness to
  - Provide funding
  - Explore the option to set up a Dutch entity for the Intellectual property
- Existing know-how on
  - Maintenance of open standards
  - Development of open-source tools
  - Dissemination & Training

WEAKNESSES

- International entity
  - Headquarters in Canada
  - No direct access to EU institutions
  - Not eligible to EU funding
  - Still perceived as North American by most EU institutions
- As of today, does not provide
  - Implementation support
  - Certifications

POTENTIAL HOUSE: MOBILITYDATA

OPPORTUNITIES

- Entry point in European standards
- Strengthen the position in the ecosystem of specifications derived from GBFS
- Potential additional funding via
  - New members
  - New partners

THREATS

- Will need to allocate resources to
  - Integrate a new specification
  - Develop new services that are specific to the TOMP-API (e.g., certifications)
- Difference in time zones for the technical work

Potential house: MaaS Alliance

Strengths

- EU non-profit
- Willingness to host TOMP-WG as neutral ground for MaaS globally
- Existing know-how on
  - Advocacy with EU institutions
  - Funding projects via EU projects
  - Dissemination

Weaknesses

- Advocacy entity
  - No software development skills nor team
  - No open-source projects
  - No immediate funding
- As of today, does not provide
  - Implementation support
  - Certifications
  - Technical trainings

POTENTIAL HOUSE: MAAS ALLIANCE

OPPORTUNITIES

- Strengthen position in the ecosystem of EU standards & MaaS technologies
- Develop
  - Technical know-how
  - New services
- Potential additional funding via
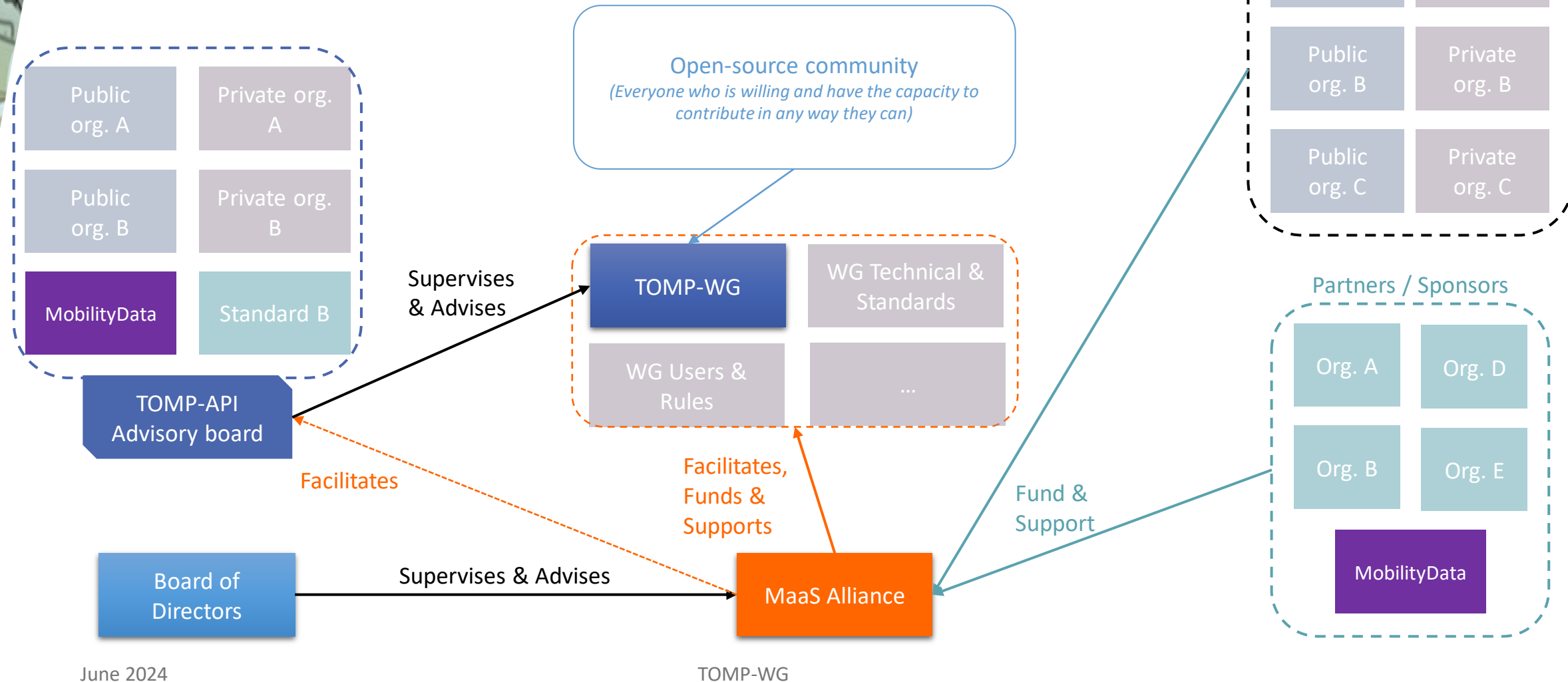 - New members
  - New partners

THREATS

- Will need to allocate resources to
  - Integrate technical work
  - Develop new services and skills (e.g., software development)
- Neutral position in the MaaS ecosystem for all existing technologies to maintain while advocating for a specific standard (the TOMP-API)

OUR RECOMMENDATION

Responsibilities overview

Activity	MaaS Alliance (MA)	MA members & partners (incl. MobilityData)	MA Board of Directors	TOMP-API Advisory Board	Existing TOMP-WG active members
Legal, Administration, Finance	Accountable & Responsible	N/A	Consulted	Informed	Informed
Governance of MaaS Alliance	Consulted	Responsible (if willing)	Accountable & Responsible	Informed	Responsible (if willing)
Governance of TOMP-API	Consulted	Responsible (if willing)	Informed	Accountable & Responsible	Consulted
Advocacy & Dissemination	Accountable & Responsible	Supporter	Supporter	Supporter	Responsible & Supporter (if willing)
Funding	Accountable & Responsible	Supporter	Supporter	Supporter	Responsible & Supporter (if willing)
Memberships & Partnerships (extension & retention)	Accountable & Responsible	Supporter	Supporter	Supporter	Responsible & Supporter (if willing)
Technical work (incl. open-source tools & certifications)	N/A	Supporter	Informed	Informed	Accountable & Responsible
Training (from logistics to content)	Accountable & Responsible	Informed Supporter (if willing)	Informed	Informed	Consulted & Responsible (if willing)
Projects (from coordination to deliverables production)	Accountable & Responsible	Informed	Informed	Informed	Consulted & Responsible (if willing)
Leadership of WTs & Secretariat	Supporter	Informed	Informed	Informed	Accountable & Responsible

MaaS Alliance

Roles

- **Legally hosts the TOMP-WG**
  - Inclusion in activities and dissemination
  - Vessel for funding
  - Facilitates the TOMP-API Advisory Board meetings
- **Supports the TOMP-WG work**
  - Access to required collaborative tools
  - Advocacy & Dissemination
  - Co-build required services and memberships for TOMP-WG's growth

Responsibilities

- **Accountable & Responsible**
  - Legal, Administration & Finance
  - Advocacy & Dissemination
  - Funding
  - Members recruitment & engagement
  - Partnerships building & maintenance
  - Training organisation (not content)
  - Projects coordination (*in the future*)
- **Supporter**
  - Leaderships of WTs & Secretariat

MaaS Alliance members & Partners (incl. MobilityData)

Roles

- Support the TOMP-WG work
  - Contribute to the work (if willing)
  - Implementation (if relevant)
  - Advocacy & Dissemination
  - Funding

- Governance
  - Eligible to the TOMP-API Advisory Board
  - Eligible to the MaaS Alliance Board of Directors

Responsibilities

- Supporter
  - Network extension (new members & partners for MaaS Alliance & TOMP)
  - Advocacy & Dissemination
  - Technical work
  - Funding

- Responsible (if willing)
  - Governance of MaaS Alliance
  - Governance of TOMP-API

- Informed
  - All other activities

MaaS Alliance Board of Directors

Roles

- **Governance of MaaS Alliance**
    - Defines the strategies
    - Approves all official decisions (administrative & financial reports)

Responsibilities

- **Accountable & Responsible**
    - Governance
- **Supporter**
    - Network extension (new members & partners for MaaS Alliance)
    - Advocacy & Dissemination
    - Funding
- **Informed**
    - All other activities

All full members of the MaaS Alliance can be elected to the Board of Directors.

TOMP-API Advisory board

Roles

- **Governance of TOMP-API**
  - Defines the strategies
  - Approves all technical major decisions (e.g. breaking changes)
- **Supports the TOMP-WG**
  - Contribute to the work (if willing)
  - Implementation (if relevant)
  - Advocacy & Dissemination
  - Funding

Responsibilities

- **Accountable & Responsible**
  - Governance
- **Supporter**
  - Network extension (new members & partners for MaaS Alliance & TOMP)
  - Advocacy & Dissemination
  - Funding
- **Informed**
  - All other activities

All full members of the MaaS Alliance & present members of the TOMP-WG CAB can be elected to the TOMP-API Advisory Board. Are nominated by default representatives of other standards.

EXISTING ACTIVE MEMBERS OF THE TOMP-WG

ROLES

- **Build the TOMP-API**
  - Technical contribution
  - Open-source tools (in the future)
  - Support implementation by solving technical issues
- **Contribute to the TOMP-WG**
  - Advocacy & Dissemination
  - Training (content)
  - Co-build required services and memberships for TOMP-WG's growth

RESPONSIBILITIES

- **Accountable & Responsible**
  - Technical work (incl. future projects)
  - Leaderships of WTs & Secretariat
- **Responsible & Supporter***
  - Network extension (new members & partners for TOMP-WG)
  - Advocacy & Dissemination
  - Funding
  - Governance (if willing)
- **Consulted**
  - All other activities

* Depends on the availabilities & willingness of each active member

FUNDING & EXPENSES

Funding

To confirm & leverage

- In-kind support from the NTM

- Financial support from MobilityData

- In-kind & Financial support from MaaS Alliance

To secure & build

- European projects funding
  - CoRoM and other CEN projects
  - EDIC cascade funding and any other EU-funding projects

- Funding from Member States

- Membership fees in specific relationships with the TOMP-API

- Service fees supporting the implementation of TOMP-API

EXPENSES FOR A YEAR

Activity	Low budget	Mid-budget	High budget
Secretariat	0.10 FTE	0.20 FTE	0.30 FTE
Advocacy & Dissemination	20k + 0.15 FTE	50k + 0.25 FTE	120k + 0.35 FTE
Technical work (development, support & training)	80k + 0.25 FTE	100k + 0.30 FTE	150k + 0.50 FTE
Open-source tools	--	50k	100k
Funding work	10k + 0.20 FTE	25k + 0.25 FTE	50k + 0.35 FTE
Other costs	20k	15k	25k
TOTAL	**130k + 0.70 FTE**	**240k + 1.0 FTE**	**445k + 1.5 FTE**

Expenses expressed in monetary terms (EUR) can be used to cover billable hours by consultants.
FTE = Full Time Employee

NEXT STEPS

NEXT STEPS

FOR THE CO-CHAIRS

- **Finalise discussions with**
  - MaaS Alliance
  - MobilityData
  - NDW (NTM)
  - CAB & SC

FOR THE TOMP-WG MEMBERS

- **Approve the final version of the slides deck**
- **Make the final decision on**
  - The house of TOMP-WG
  - The governance of TOMP-API
- **Endorse and support the transition toward the house of TOMP-WG**

THANK YOU!

Edwin & Tu-Tho