



osp 2025
COMMUNITY CONFERENCE

WELCOME TO THE
OSP CC 25

From the OSP Orga Team and MT

Dr Stephan Schaller
Chair OSP MT, CEO CLS Foundation, CEO ESQlabs



Acknowledgements

Acknowledgements: Sponsors

- Gold



- Silver



- Bronze



Acknowledgements: People

- Orga Team



Henrik Cordes
Sanofi



Donato Teutonico
Sanofi



Stephan Schaller
CLS Foundation, ESQlabs



Ibrahim Ince:
Boehringer Ingelheim



Wilbert De Witte
ESQlabs



Lars Küpfer
UK Aachen



André Dallmann
Bayer

- Backoffice



Monique Fontana (LinkedIn, Marketing, Conference Operations)
ESQlabs



Robert McIntosh (Website)
ESQlabs



- Orga Team Supporters:

- Salih Banamara (Sanofi)
- Denise Feick (Sanofi)

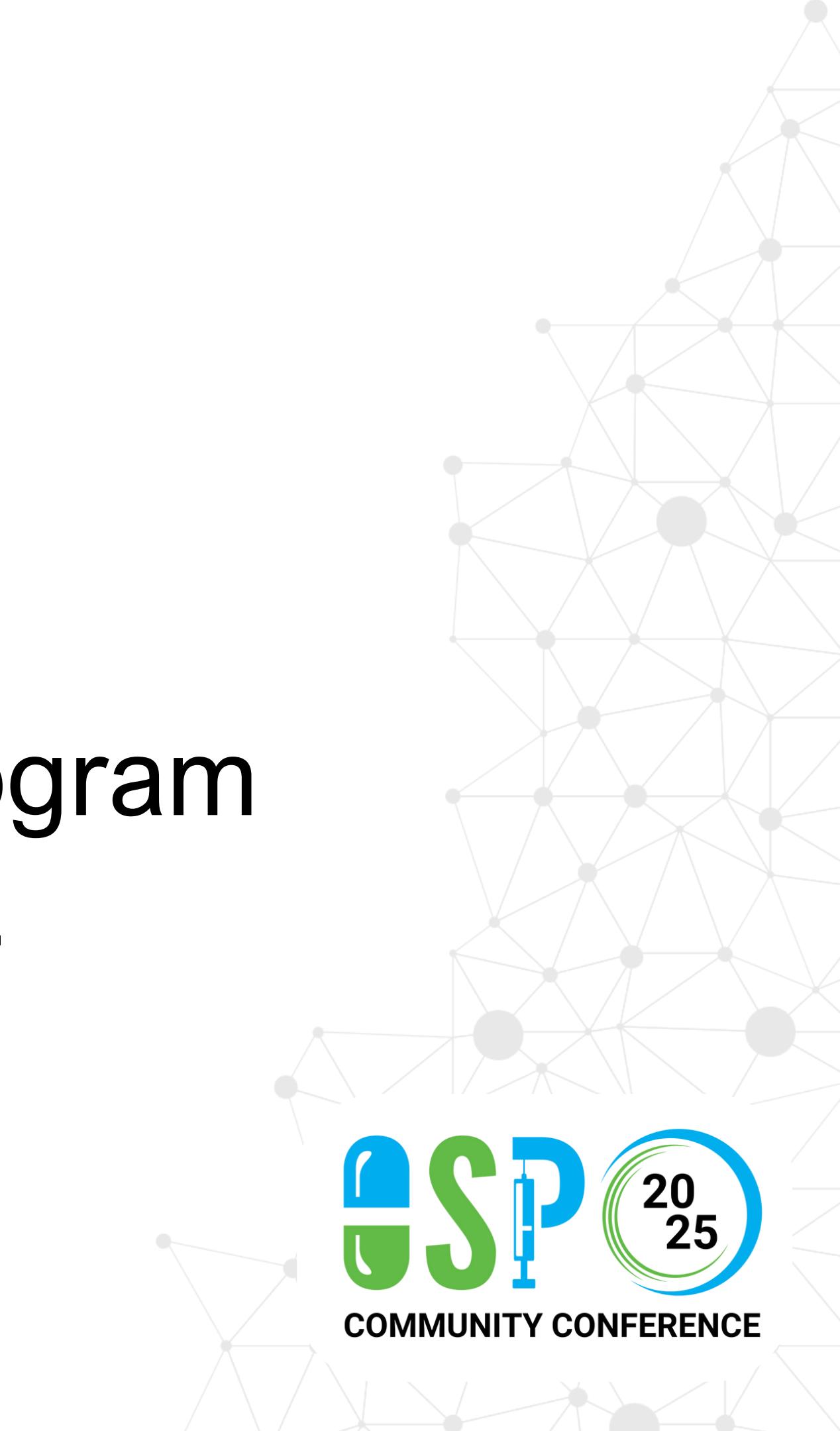
COMPUTATIONAL LIFE SCIENCES FOUNDATION
Advancing Computational Life Sciences through Open Collaboration



espo 2025
COMMUNITY CONFERENCE



Conference Program - Outlook -



Conference Program

- Outlook -

- 106 Participants from 40 Institutions (From 105/40 last time)
- 6 PK-Sim and MoBi Workshops
 - Basics, PBBM, DDI, Pediatrics, MoBi, and OSP-R
- 4 Scientific Sessions (Broader Scope, less talks)
 - Session 1 & 2: Clinical Applications/ Development
 - DDI, PBBM, Special Pops, Regulatory Document
 - Session 3: Research & Discovery
 - AI/ML, ADOMETox, HT-PBPK, IVIVE, Safety/Early tox
 - Session 4: Submission, Lifecycle & Approval
- 1 Software Session
 - OSP Software Roadmap and Collaborative SW Development



Housekeeping

Housekeeping: Time

- Talks - Q&A
 - Packed Program: Stay on Time!!!
 - 20 min Talk (will be cut after 25 min), 10 min Q&A
 - All Session Chairs are expected to be strict on speaking time!
 - Microphones will be circulated for Q&A
- Breaks
 - Coffee Breaks and Lunch
 - Directly here in the Building

Housekeeping: Social Event

Join us for an unforgettable evening at La Maison Sanofi Paris!

 Monday, September 29th, 2025

 46 Avenue de la Grande Armée, 75017 Paris [Sanofi - Google Maps](#)

 **Please make sure to bring the QR code you received with you. It will be required to access the site.** 

 *Transportation to the DINNER venue*

 Bus departure: 18:30 from Sanofi Vitry Main Entrance.

 *Return Options*

Please note that the social event will wrap up around midnight. After our dinner at La Maison Sanofi Paris, you're on your own for the return journey, but don't panic! This is your chance to experience the City of Lights by night 



THE OSP COMMUNITY

Fostering **Engagement** and **Collaboration**
for a thriving **Community**

Mindset for the OSP Community Conference

- Introduction to the OSP Community
 - Helping you understand Stakeholders and Dependencies
 - → Engage with people during coffee breaks and find connections for your topics/questions
- Current Engagement of the OSP Community
 - How and where do we interact: Finding your way
 - What is the OSP Growth Trajectory
 - → Engage at Posters during coffee breaks, find collaborators and get inspired to contribute to the growth
- Our Path Forward
 - How can we sustain and build relevance for the OSP in the future of MIDD and NGRA
 - Funding the OSP Community
 - → Engage with stakeholders during coffee breaks and discuss how you could contribute or share ideas for building a sustainable future for OSP



Vision and Mission of the OSP



Vision and Mission of the OSP

<https://github.com/Open-Systems-Pharmacology/Roadmap>

Robust and reliable, easy-to-use modeling & simulation tools, processes and models for pharmaceutical and other life-sciences applications qualified and accepted by a scientific community from academia, regulatory agencies and industry available and open to everyone.

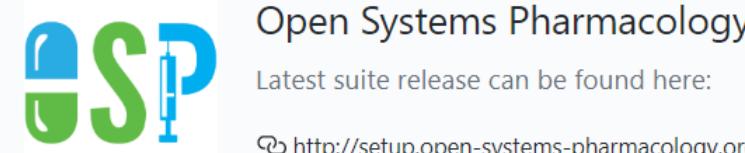
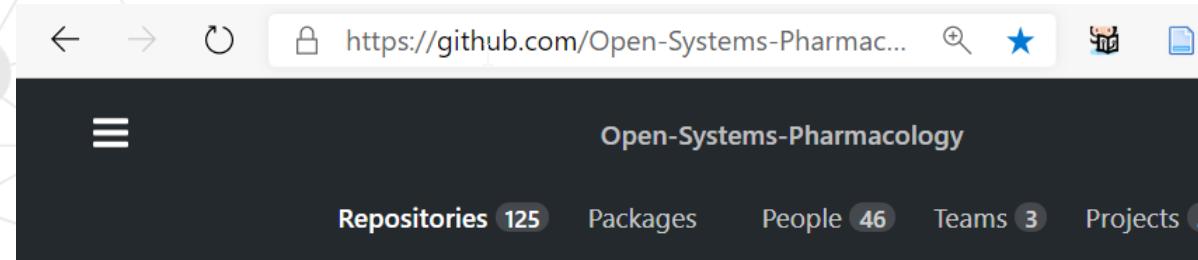
Provide a platform for joint development, review & qualification, and application of state-of-the-art tools for PBPK and Systems Pharmacology modeling and an open library of models for application as well as method & tool qualification purposes. Promote the idea of pre-competitive open collaboration for the advancement of modeling & simulation sciences in pharmaceutical and life science.

The OSP Management Team

- **The OSP management team** manages the community and its membership.
- It is responsible for regular review, endorsement and publication of the **OSP development roadmap** (“Executed” through Focus Groups).
- *The management team provides certification of the software platform, models and other systems pharmacology content such as qualifications and trainings.*
- It **releases** certified platform versions.
- The team organizes **contributions to the scientific and regulatory community** and publishes white papers.

The OSP Community Landscape

Stakeholders of the Open Systems Pharmacology community and Management Team



MANAGEMENT TEAM



MICHAEL SEVESTRE
Design2Code Inc.



ROLF BURGHÄUS
Systems Pharmacology & Medicine,
Bayer AG



STEPHAN SCHALLER
CEO, esqLABS GmbH



ALEXANDER STAAB
Boehringer Ingelheim Pharma GmbH
& Co. KG



Open Source since 2017 on GitHub



The OSP Community Focus Groups

Representing the “Executive Arm” of OSP Roadmap Implementation

Dedicated Focus Groups have been established to conceptualize, design and progress the individual areas, the Management Team will coordinate the interplay of focus areas and interfaces between them

Focus groups shall be the owner of the development in the respective focus area, they are expected to conceptualize and coordinate activities of the respective field.

EXISTING

- DDI
- Special Populations
- Absorption
- Automation
- PD
- Statistical modelling
- First in Human (IVIVE)
- Omics
- Suite Release Management
- Community Engagement (PR)
- Biologics

NEW

- Nonclinical PBPK
- PBBM
- HT PBPK
- Qualification
- Base PBPK Methodology

DDI	Quantitative DDI predictions (CYPs as well as transporters) are one of the key applications for PBPK and are a prerequisite for designing efficient clinical development programs and studies. A comprehensive library of well documented, qualified perpetrators and victims is a prerequisite for acceptance of DDI predictions from regulatory authorities.	Sebastian Frechen (@sfrechen)
IVIVE	<ul style="list-style-type: none">• Improve and facilitate use of IVIVE in PK-Sim• Provide guidelines on how to conduct IVIVE in PK-Sim• Facilitate integration of in vitro data in prediction of DDI (e.g. integration of fraction metabolized)• Extrapolation of Caco-2 permeabilities to effective permeabilities	Donato Teutonico (@teutonicod)
Special populations	<p>The addition of new or updated virtual populations is required to expand the application scope of the software in a consistent manner across users. The overall objectives are to define a process for</p> <ol style="list-style-type: none">1. technical generation of populations destined for the OSP Suite and,2. evaluation of those populations. <p>This protocol will allow populations to be added more efficiently.</p>	Andrea Edginton (@Aedginto)
Statistical Modelling	Statistical Modeling is a strategic theme of the OSP MT. Statistical modeling is a key enabler for PBPK and QSP M&S. Respective capabilities are required for all application areas to quantitatively assess population variability and uncertainty in prior knowledge and posterior results.	Christian Diedrich (@DiedrichC)

The OSP “Executive Body”: Focus Groups

Composition

- Everybody from OSP community can contribute to a focus group
- At least one member from the OSP MT has to act as sponsor of a focus group (not necessarily participating in the work of the focus group)

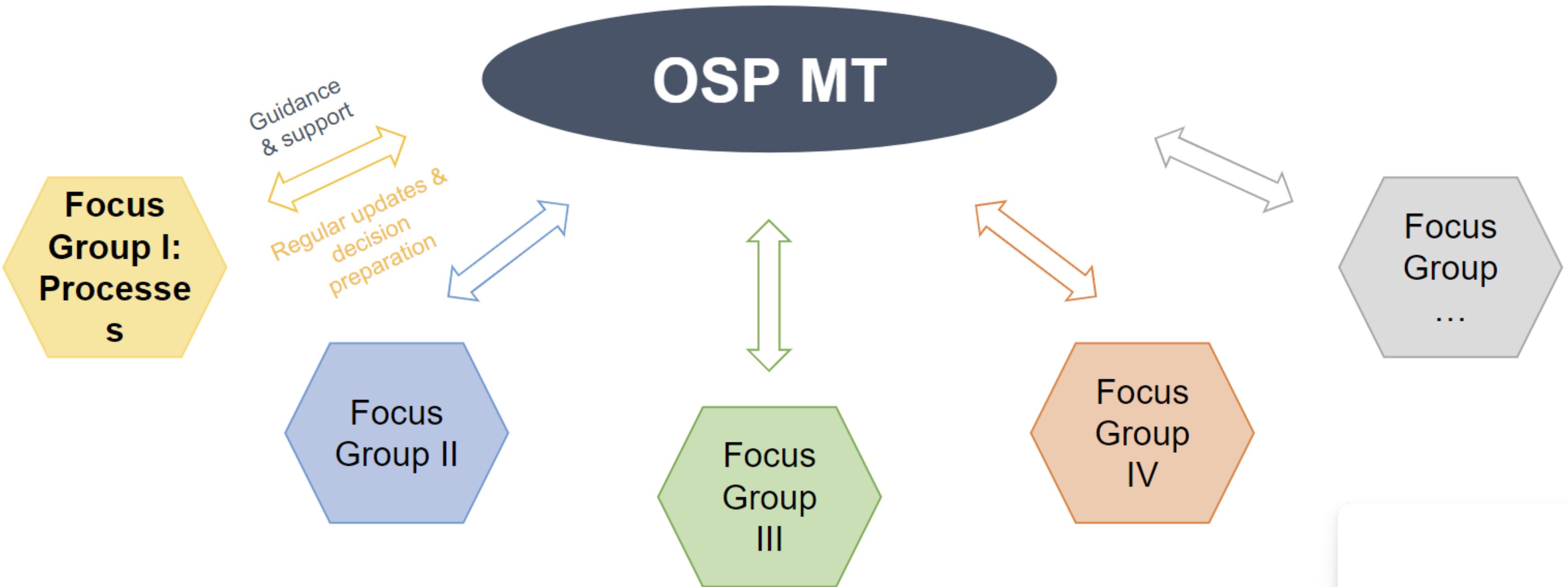
Purpose

- Focus groups are the operating bodies of the OSP MT
- They act on the mandate of the OSP MT and report directly into the MT (internal topic development)
- Topics are not restricted and can range from Modell certification process to Marketing
- Through a clear project structure small teams should be empowered to elaborate clearly defined topics for further decision in OSP MT

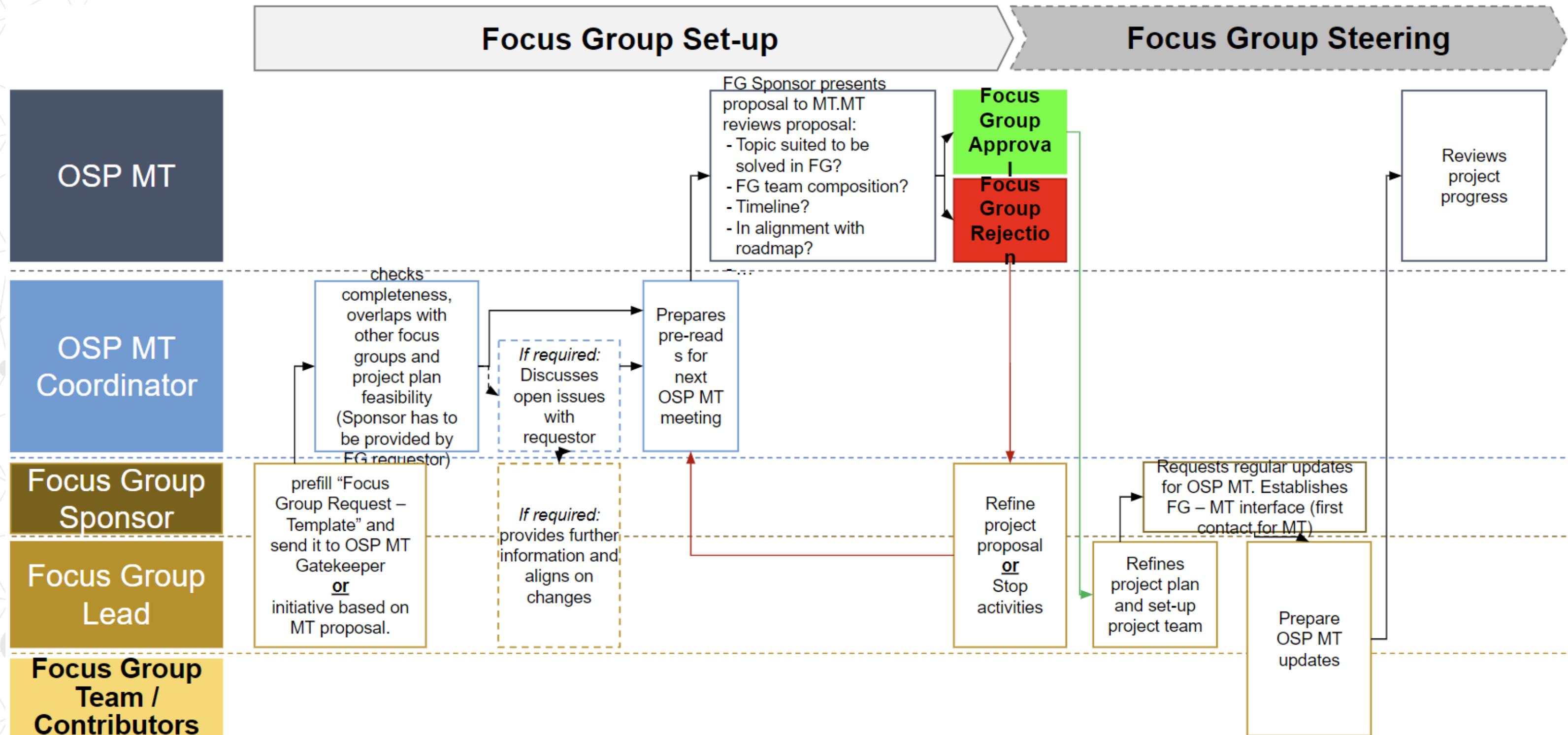
Requirements / Organization

- Clear and aligned Focus Group Charter
- Self organizing units
- Close tracking of all ongoing activities through regular updates in OSP MT
- Transparent documentation (google drive) (further administrative harmonization to be discussed)

Focus Groups: Organization

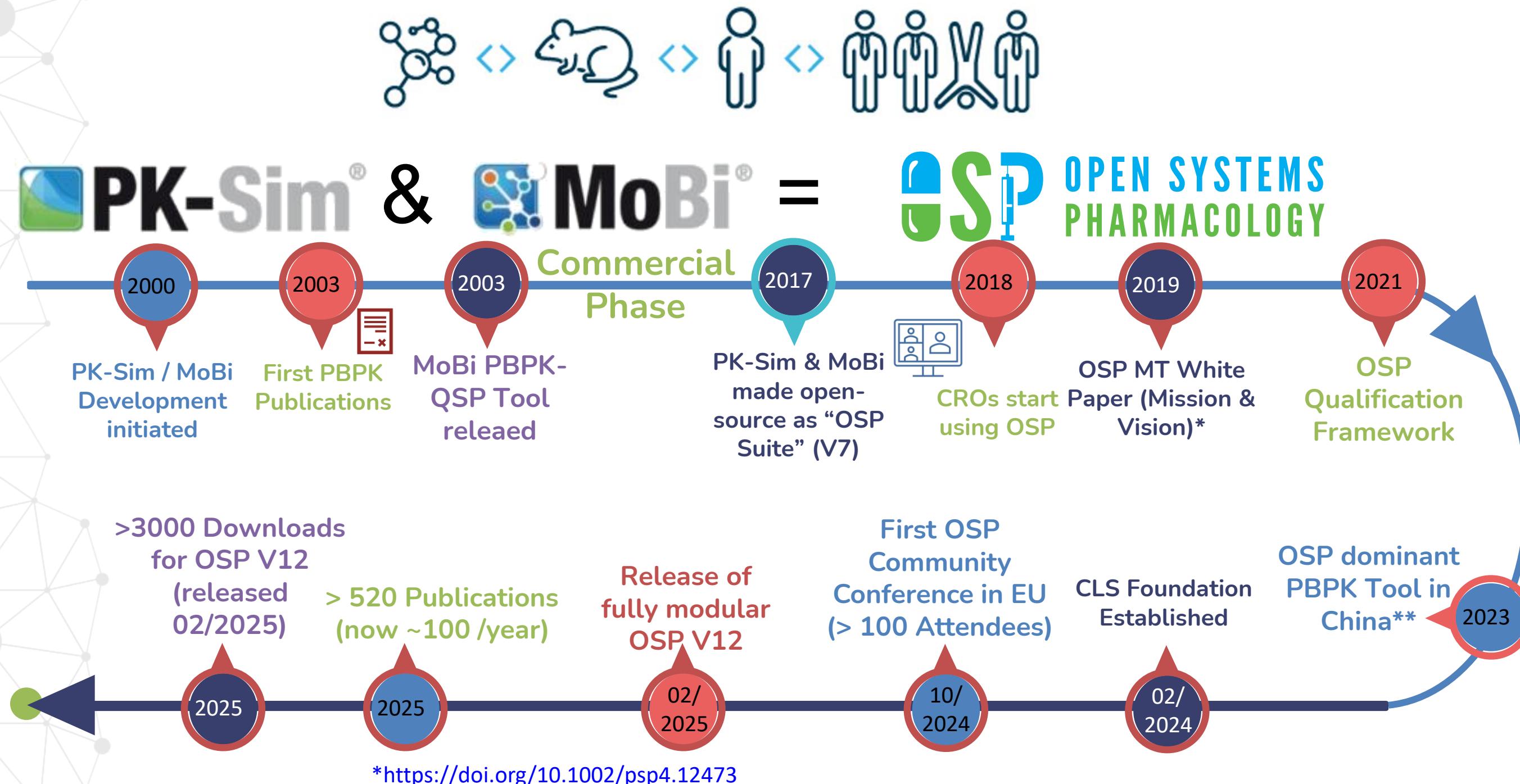


Focus Groups: Set-up and Steering Process



The OSP Journey so far

- An open-source Multiscale Physiologically-Based & Mechanistic Modeling platform which has been developed and refined for **20 years!**



The OSP Journey so far

CPT: Pharmacometrics & Systems Pharmacology

Perspective |  Open Access | 

Open Systems Pharmacology Community—An Open Access, Open Source, Open Science Approach to Modeling and Simulation in Pharmaceutical Sciences

Jörg Lippert , Rolf Burghaus, Andrea Edginton, Sebastian Frechen, Mats Karlsson, Andreas Kovar, Thorsten Lehr, Peter Milligan, Valerie Nock, Sergej Ramusovic, Matthew Riggs ... See all authors 

First published: 31 October 2019 | <https://doi.org/10.1002/psp4.12473> | Citations: 81

PK-Sim / MoBi
Development
initiated

First PBPK
Publications

MoBi PBPK-
QSP Tool
released

ma
sour
Su

>3000 Downloads
for OSP V12
(released
02/2025)

> 520 Publications
(now ~100 /year)

Release of
fully modular
OSP V12
02/
2025

& Mechanistic Modeling
for 20 years!



CPT: Pharmacometrics & Systems Pharmacology

PERSPECTIVE |  Open Access | 

Harnessing Open-Source Solutions: Insights From the First Open Systems Pharmacology (OSP) Community Conference

André Dallmann , Denise Feick, Pavel Balazki, Salih Benamara, Rolf Burghaus, Marylore Chenel, Siak-Leng Choi, Henrik Cordes, Mariana Guimarães, Abdullah Hamadeh ... See all authors 

First published: 03 April 2025 | <https://doi.org/10.1002/psp4.70028>

[*https://doi.org/10.1002/psp4.12473](https://doi.org/10.1002/psp4.12473)



Community Channels



Website

www.open-systems-pharmacology.org

The screenshot shows the homepage of the Open Systems Pharmacology (OSP) website. At the top left is the OSP logo with the text "OPEN SYSTEMS PHARMACOLOGY". To the right are navigation links: ESSENTIALS, NEWS & RELEASE, TUTORIALS, PUBLICATIONS & MODELS, MANAGEMENT TEAM, and NEWSLETTER. The main content area features a large blue background image of a human brain with a network overlay. On the left side of this image, the text "OPEN SYSTEMS PHARMACOLOGY" is written in green, and below it, "PK-SIM® AND MOBI® FOR PBPK AND QUANTITATIVE SYSTEMS PHARMACOLOGY" is written in large black capital letters. A smaller text block below describes the tools as reliable, powerful, and easy-to-use modeling & simulation tools for pharmaceutical and other life-sciences applications, qualified and accepted by the scientific community, available free to everyone. An orange "LEARN MORE" button is located at the bottom left of the main image area.



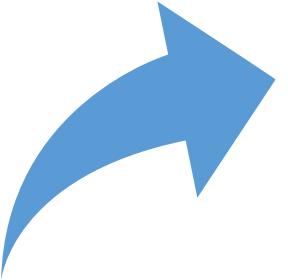
GitHub / Forum

User Community: Forum: github.com/Open-Systems-Pharmacology/Forum



FORUM

Have your questions answered or provide answers to others. The Forum is a great way to stay up-to-date on the community buzz around OSP.



The screenshot shows the GitHub Forum interface for the 'Open-Systems-Pharmacology' repository. The top navigation bar includes links for Code, Issues (1), Pull requests, Discussions (highlighted in red), Actions, Wiki, Security, and Insights. A search bar and various GitHub navigation icons are also present. Below the navigation, four recent announcements are listed:

- REGULATORY Submissions with OSP-Suite by StephanSchaller
- OSP file formats are added to the FDA's white list of f... by Yuri05
- Save the Date: OSP Community Conference... by rwmintosh
- OSP Suite Version 12 Update 1 released by Yuri05

Below these announcements, there are filters for 'is:open' discussions, sorting by 'Latest activity', and dropdown menus for 'Label' and 'Filter: Open'. A green button labeled 'New discussion' is visible. On the left, a sidebar titled 'Categories' lists: View all discussions, Announcement, Feature Requests & Ideas, How-Tos, Models, Polls, and Questions & Problems. A 'Most helpful' section for the last 30 days is also shown. On the right, a list of discussions is displayed:

- Integrating in vitro dissolution model into PBPM when using lognormal distribution by RobinM92 (Answered) - 4 comments
- OSP Suite Version 12 Update 1 released by Yuri05 (Announcement) - 0 comments
- Rationale behind axes range by GhazalMontaseri (Unanswered) - 6 comments
- Irinotecan model by safgren (Unanswered) - 2 comments

A circular logo in the bottom right corner reads '2025 COMMUNITY CONFERENCE'.

LinkedIn (& TWITTER / X)



Sie sehen diese Seite als Mitglied an.



Open Systems Pharmacology Management Team

An open community delivering powerful and qualified open-source content and M&S tools for sciences applications.

Forschungsdienstleistungen · Germany · 2 Tsd. Follower:innen · 11-50 Beschäftigte

Rolf & 2 weitere Kontakte sind hier beschäftigt

1 S

Open-Systems-Pharmacology

Privat, öffentlich

Badge für aktive Gruppen erhalten

146 Mitglieder

Darunter Pradeep Lukka und 98 weitere Kontakte

Kontakte einladen

Alle anzeigen →

- X Home
- Q Explore
- Notifications
- M Messages
- B Bookmarks
- J Jobs

OSP Community

23 posts

PK-Sim®

MoBi®

Following

OSP Community

@ospsuite Follows you

open-systems-pharmacology.org Joined October 2017

OSP Journal (Zenodo)

<https://zenodo.org/communities/ospj>

The screenshot shows the Zenodo interface for the OSP Journal (OSPJ) community. At the top, there is a blue header bar with the Zenodo logo on the left, a search bar containing "Search records...", and a magnifying glass icon. To the right of the search bar are two buttons: "Communities" and "My dashboard". Below the header, the OSPJ logo is displayed, featuring the letters "OSP" where the "O" is a stylized green and blue atom symbol, followed by the words "OPEN SYSTEMS PHARMACOLOGY". Below the logo, there is a navigation bar with four items: "Records" (highlighted with a red underline), "Members", "Curation policy", and "About".



The OSP Community Focus Groups

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A Growing OSP Community



Growth Metrics by Publications

Source 1: Global Bibliometric Analyses



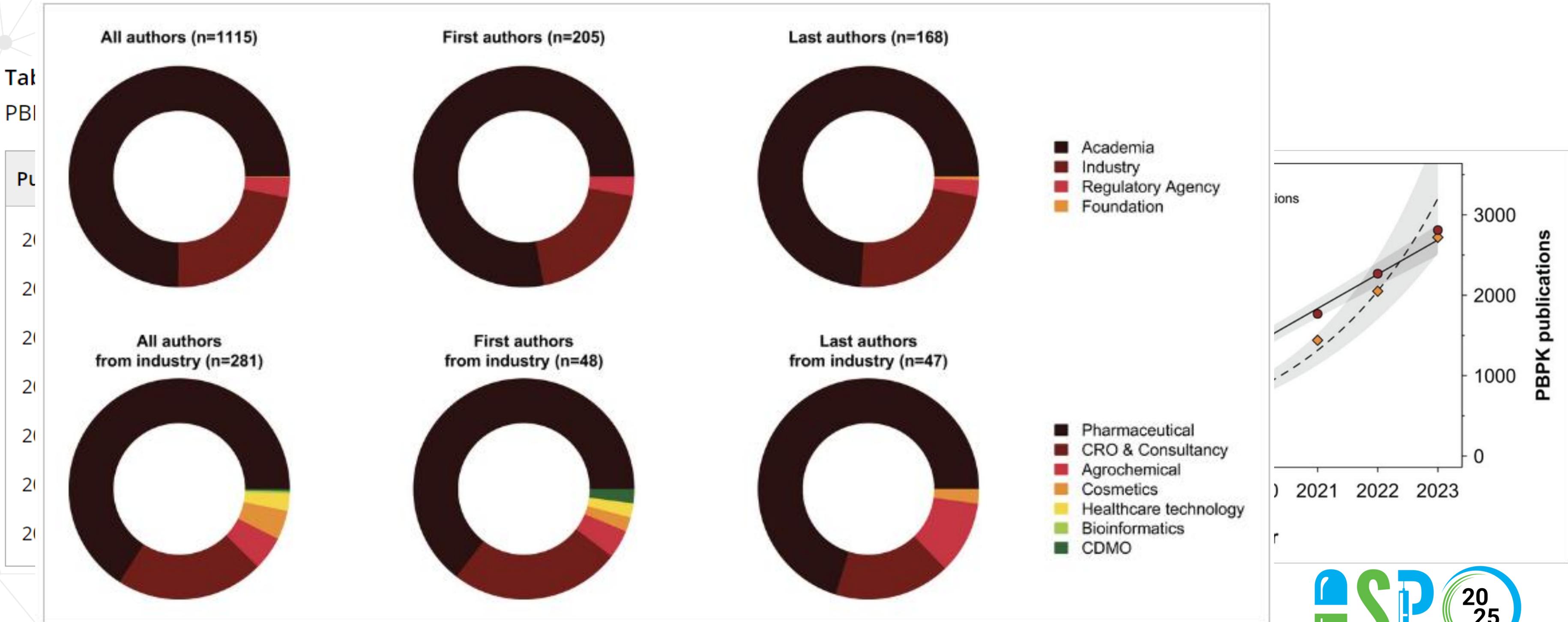
Editor's Choice: Original Article | Open Access |

In-Depth Analysis of the Selection of PBPK Modeling Tools: Bibliometric and Social Network Analysis of the Open Systems Pharmacology Community

André Dallmann PhD , Donato Teutonico PhD, Stephan Schaller PhD, Rolf Burghaus PhD,
Sebastian Frechen MD

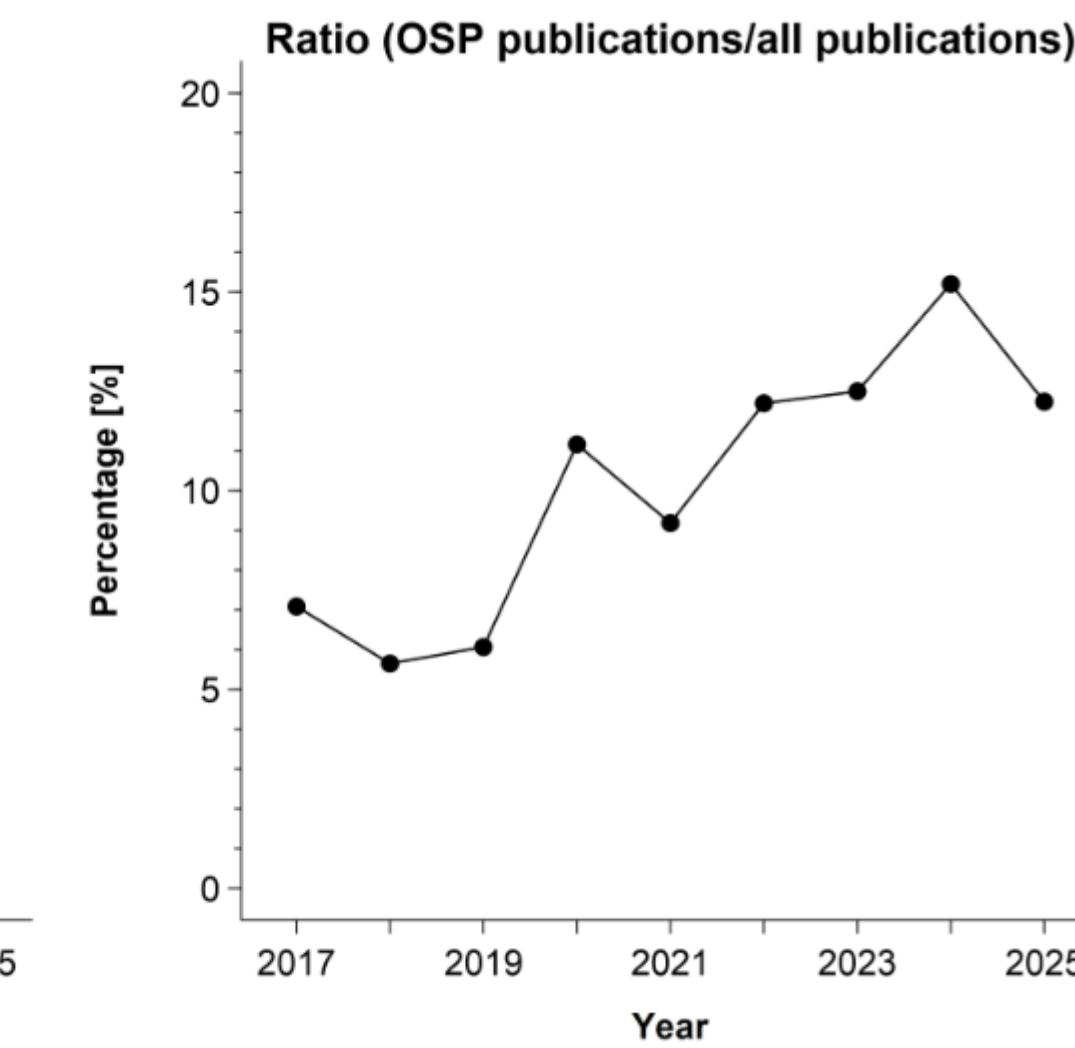
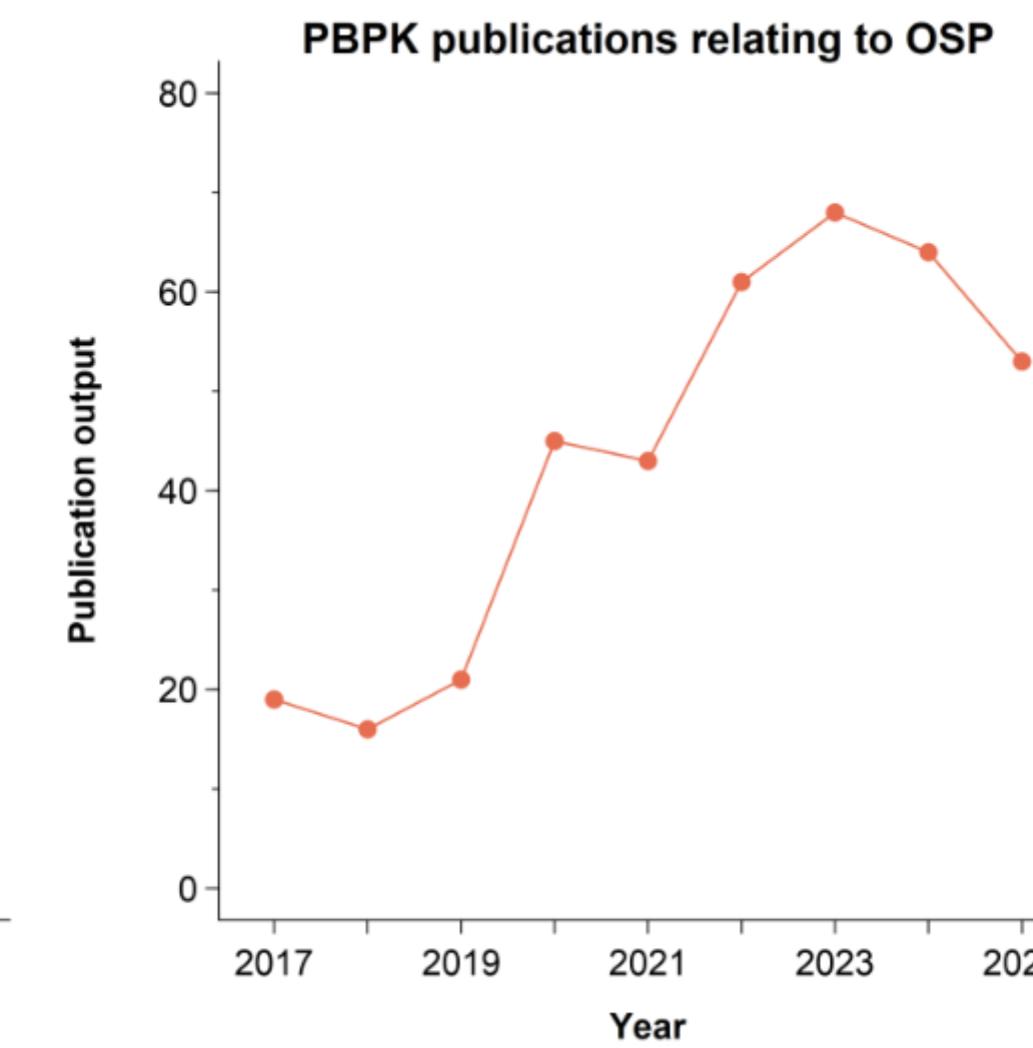
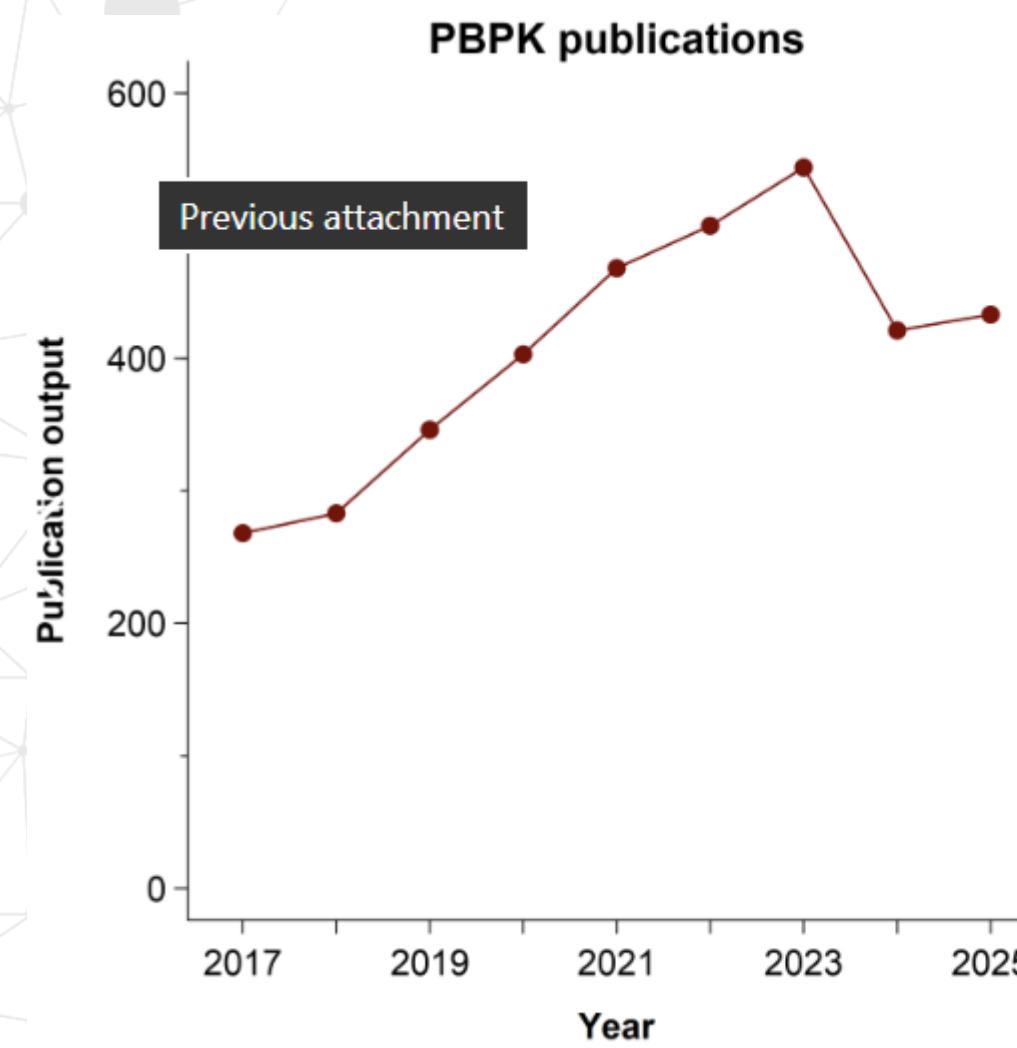
Growth Metrics by Publications

Source 1: Global Bibliometric Analyses (up to 2023)



Growth Metrics by Publications

Source 1: Global Bibliometric Analyses (EXPANDED to 2025)



Growth Metrics by Publications

Source 2: China Bibliometric Analyses

REVIEW OPEN ACCESS

PBPK Precis

Dongsheng Y
Xiaoqiang Xi

¹Department of
National Medic
Formulations f

Corresponden

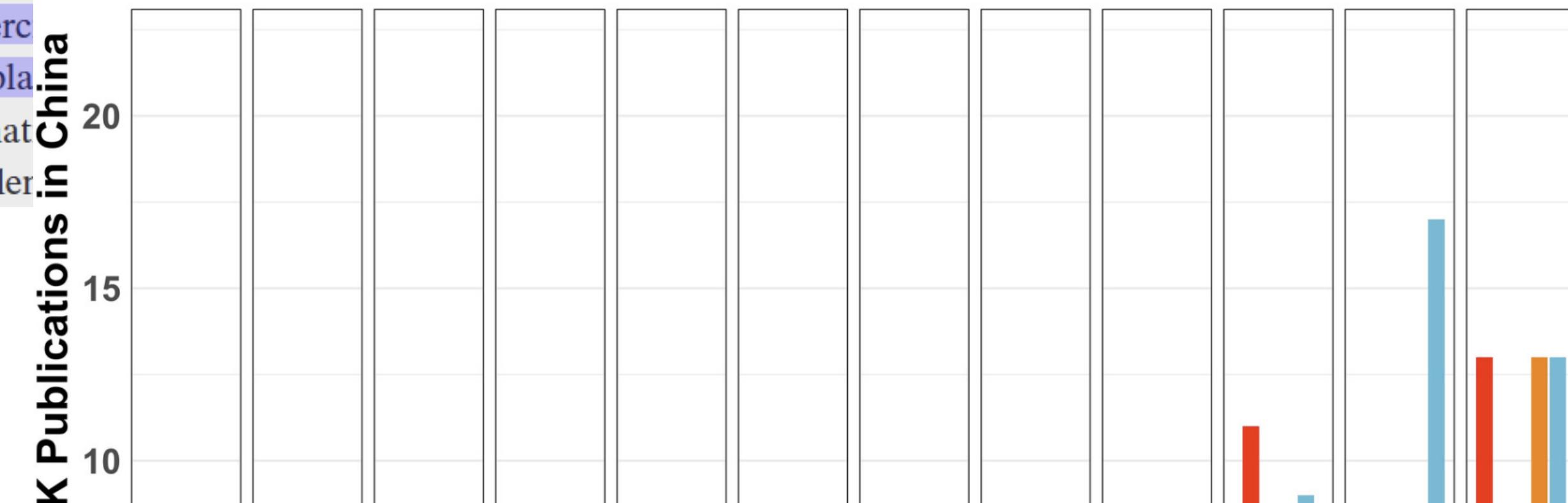
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Funding: This

ABSTRACT

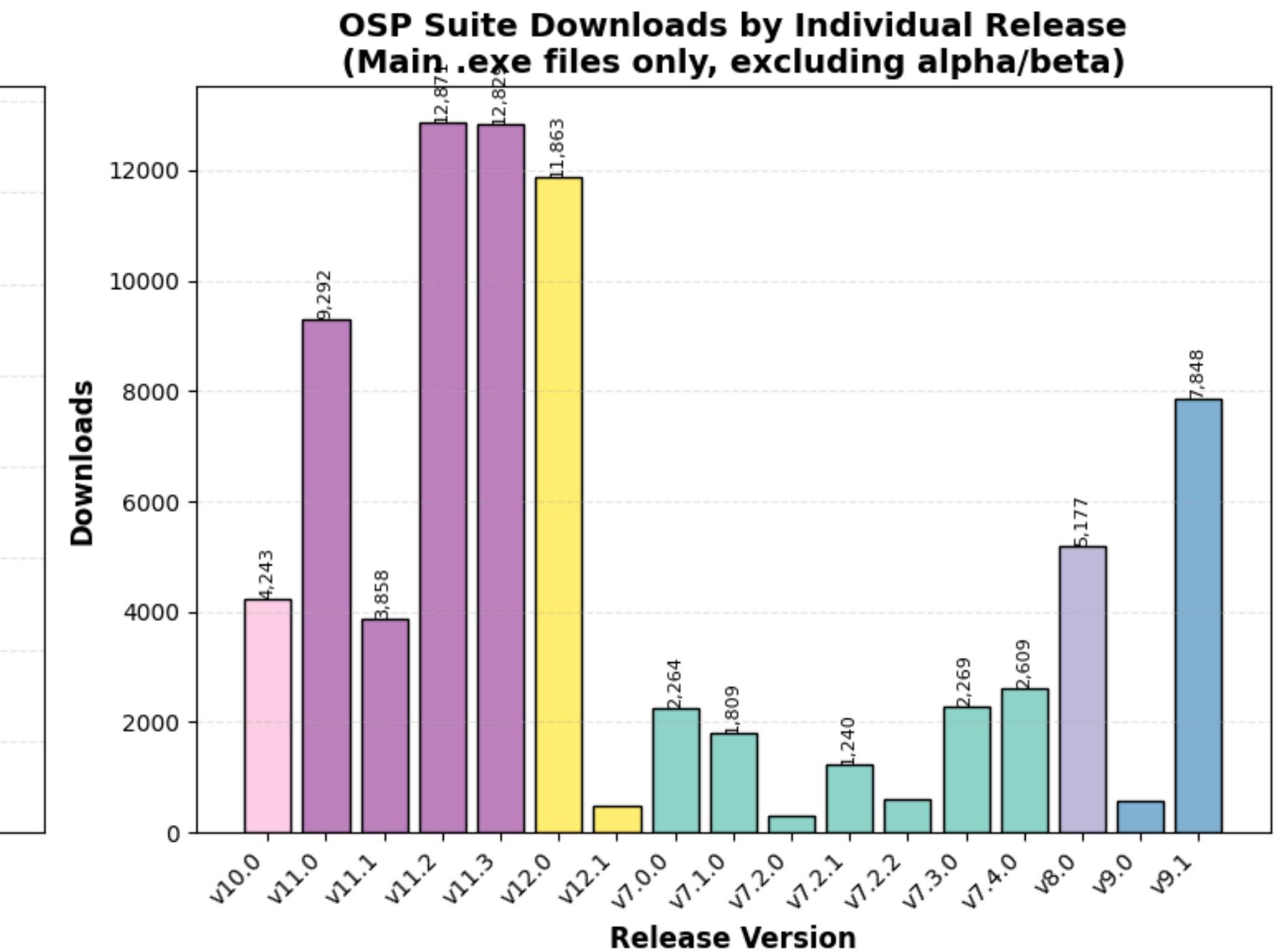
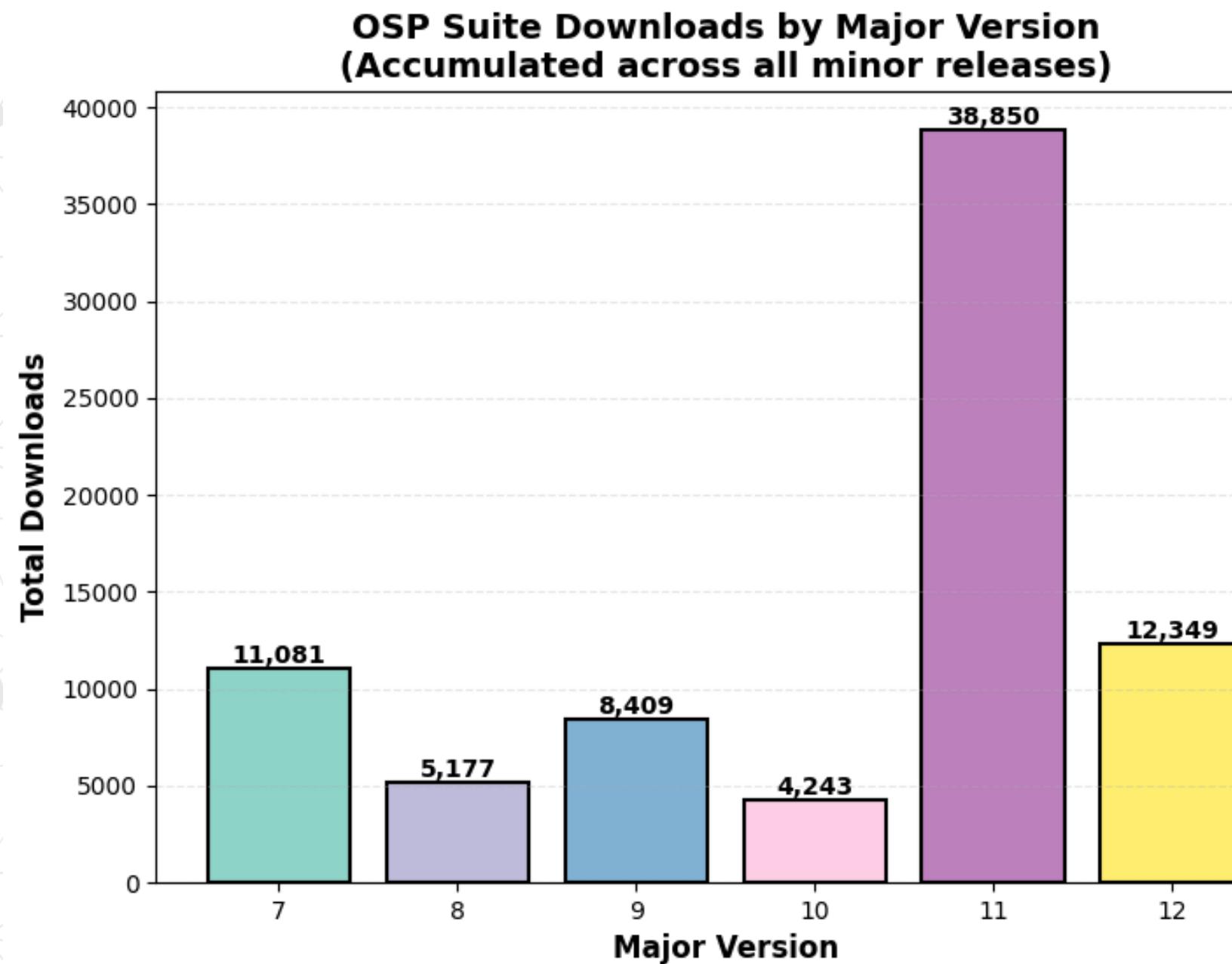
Physiologically based pharmacokinetic (PBPK) modeling, a cornerstone of model-informed drug development and model-informed precision dosing, simulates drug disposition in the human body by integrating physiological, biochemical, and physicochemical parameters. While PBPK modeling has advanced globally since the 1970s, China's adoption of this technology has followed a distinctive path, characterized by accelerated growth over the past 2 decades. This review provides a comprehensive analysis of China's contributions to PBPK modeling, addressing knowledge gaps in publication trends, application domains, and platform preferences. A systematic literature search yielded 266 original PBPK research articles from PubMed up to August 08, 2024. The analysis revealed that drug disposition and drug–drug interaction studies constitute the largest proportion of PBPK analyses in China. Chinese universities a

 GastroPlus  MATLAB  Pheonix WinNonlin  PK-Sim  Simcyp



Growth Metrics by OSP Suite Downloads

Source: GitHub



Growth?-Metrics by PAGE attendance ;-)

Source: PAGE OSP Booth Picture Time (we didn't coordinate well in 2025)





OSP COMMUNITY: ONWARD

**Sustaining Engagement and Collaboration
for a continuing thriving Community**



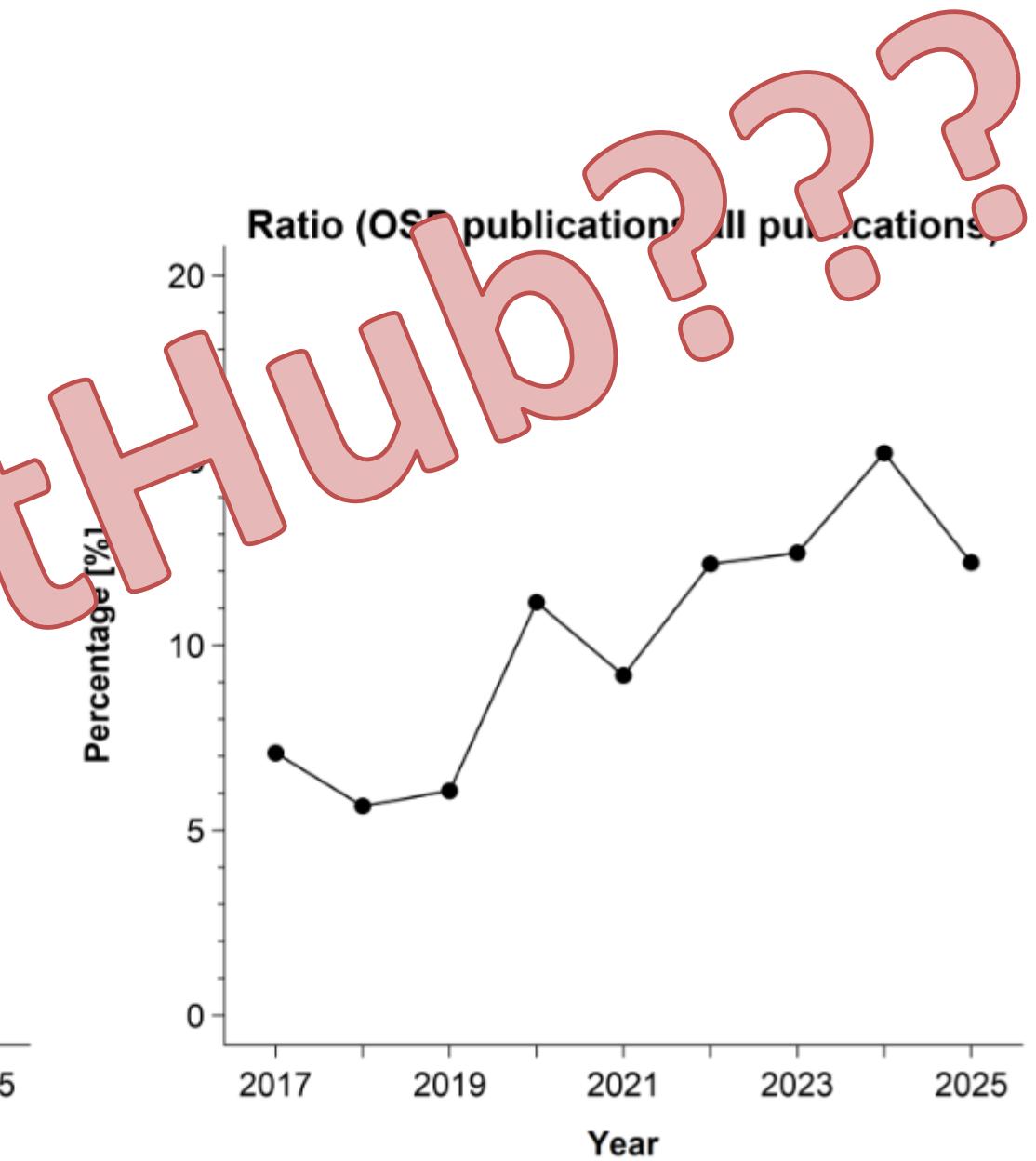
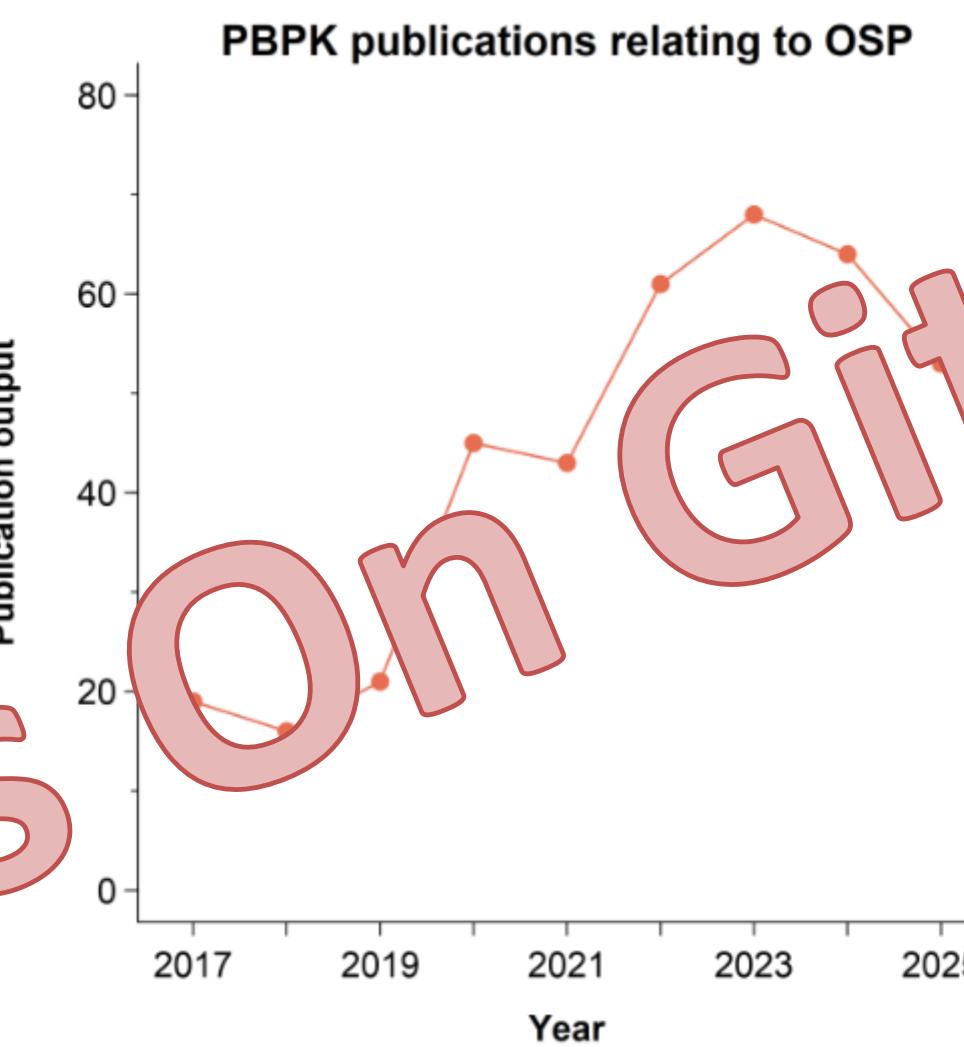
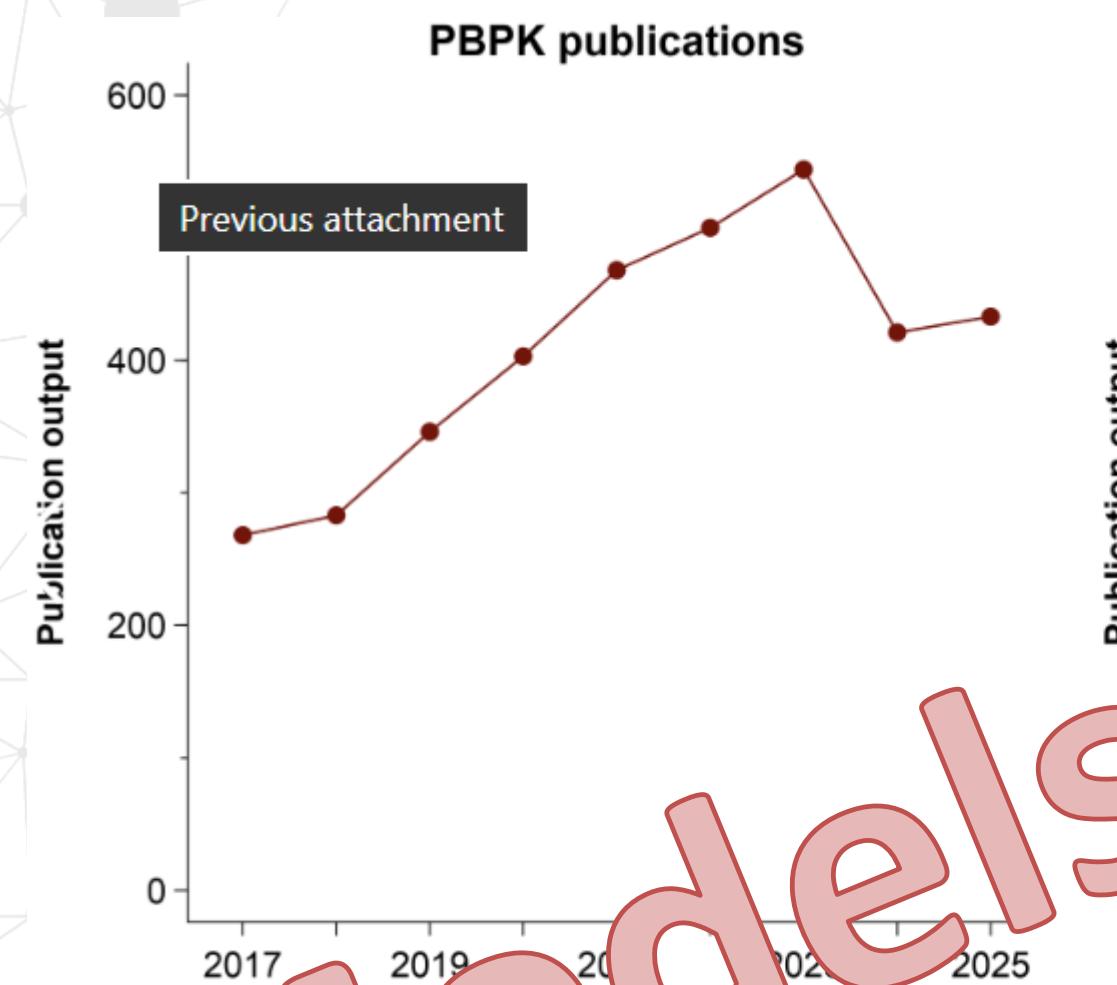
Sustain Relevance of OSP



Sustain Relevance of the OSP Suite & Community

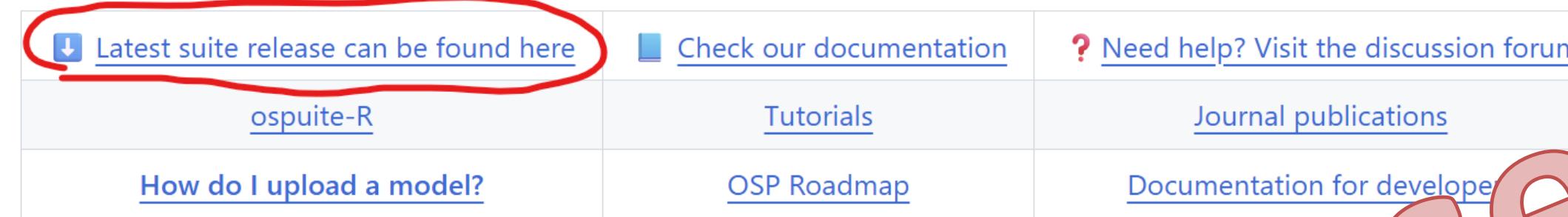
- Models & Software Ressources...
 - ...Availability
 - ...Accessibility
 - ...Acceptance

Model Availability?



Model Accessibility?

OSP Suite Version 12 Update 1 released



Pinned

GitHub easy to use?

A GitHub profile page showing pinned repositories. The repositories are:

- MoBi** (Public): MoBi® is a software tool for multiscale physiological modeling and simulation. (C# 0, Stars 36, Forks 13)
- OSP-Suite** (Public): Open Source Pharmacokinetic Suite Setup. (Rich Text Format, Stars 120, Forks 28)
- PK-Sim** (Public): PK-Sim® is a comprehensive software tool for whole-body physiologically based pharmacokinetic modeling. (C# 0, Stars 129, Forks 56)
- OSP-Qualification-Reports** (Public): Qualification Reports recreated with every new OSP Release. (Stars 3, Forks 8)
- OSP-PBPK-Model-Library** (Public): Library of released PBPK substance models and evaluation reports. (Stars 31, Forks 24)

OSP Suite Essentials

Releases & Set-up

PK-Sim

Platform-Qualifications

PBPK Model Library

MoBi

Systems Model Library

Manual

Forum

Qualification Framework

Reporting Engine

R-Toolbox

DDI Enzymes



Pediatrics



Obesity



DDI Transporters



Covid-19



Depression



Model Acceptance

Certification | Validation | Qualification

Certification

- Independent peer review by ≥ 2 reviewers
- FORMALIZATION: Accepted by OSP MT (statement → “OSP MT certified”)

Qualification (only qualified content can be implemented in PKSim)

- Applicability (useful for others, predictability → provide use cases)
- Reasonable results (might not be acceptable for high impact results (poor data availability, ...))
- [Note: Relation to PBPK best practice document(s)]

Validation

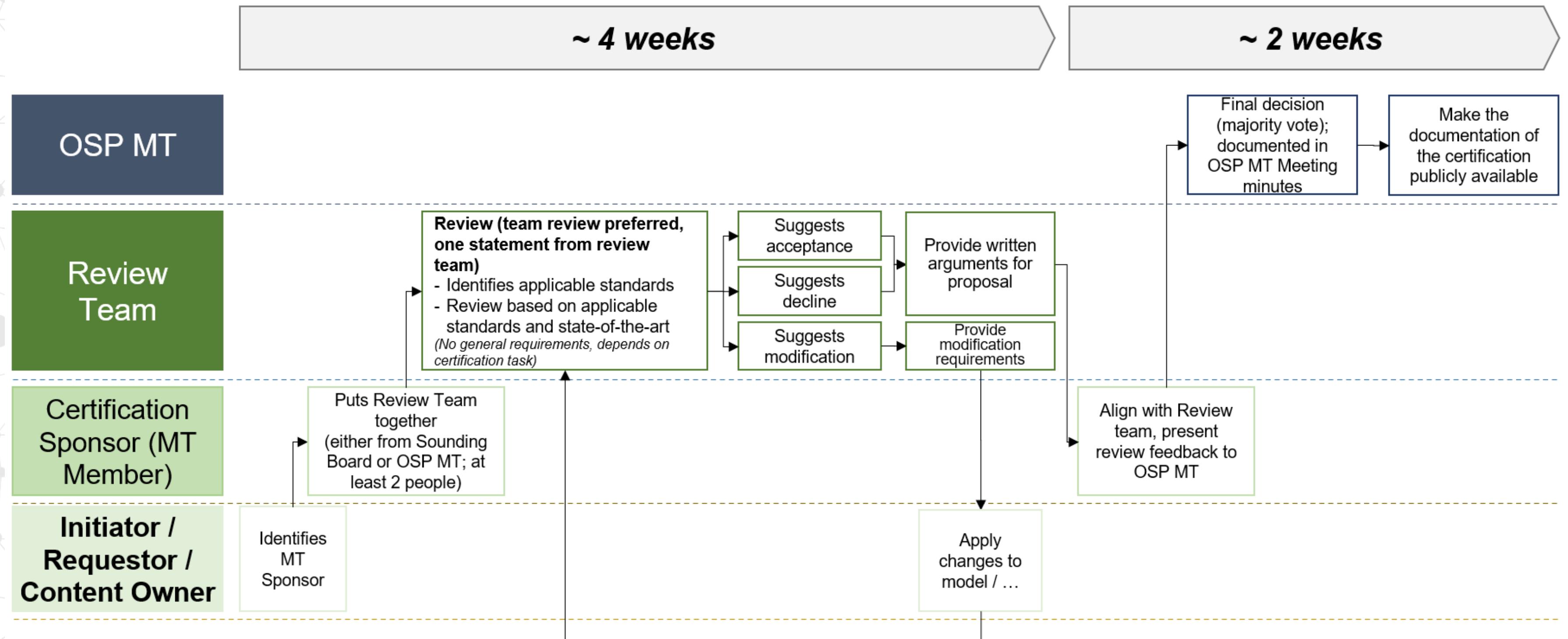
- Technical robustness

Certification: Models, Tools & More

Goal: Provide review and **certification as a learned society** applying fully transparent processes

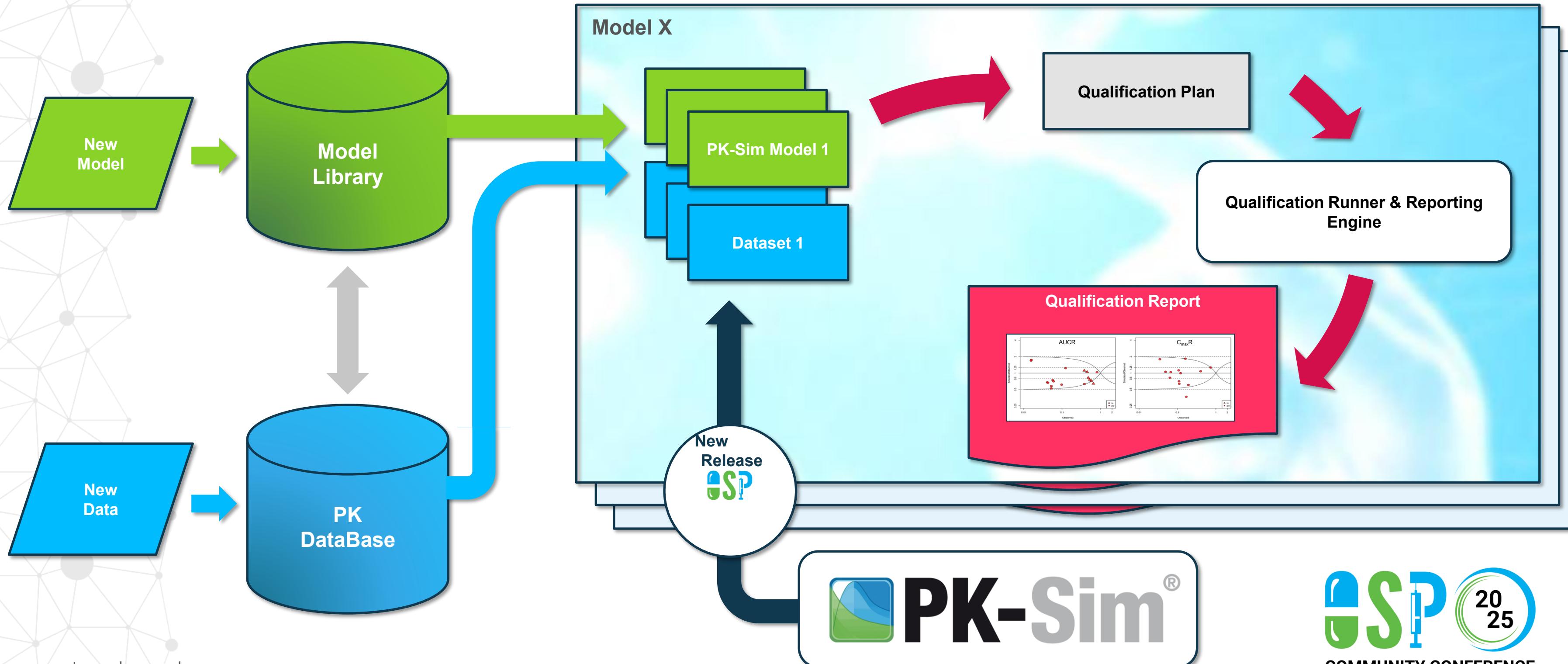
- Provide PBPK and systems pharmacology based approaches, best practices, systems and tools that are **evaluated regarding their compliance with (regulatory) guidelines** and state-of-the art modelling / software qualification approaches
- Ensure that the **certification** can be done **in a sustainable way** that allows for (re-)qualification with each software version release **supported by automated processes**

Certification Process



Community-Driven CoU Qualification Framework

Automatic (Re)-qualification Workflow



Regulatory Submissions with PK-Sim

Just to be sure:

“OSP file formats are added to FDA's white list of file formats for electronic submissions”

Specifications for File Format Types Using eCTD Specifications

- The following OSP file formats are included:
- **.pksim5** (PK-Sim project file)
- **.mbp3** (MoBi project file)
- **.pkml** (OSP model exchange format)
- **.json** (PK-Sim project snapshots file)

Revision History		
Date	Version	Summary of Changes
2023-12-01	9.0	<p>Updated .docx permissible uses Updated .xml accepted locations and permissible uses Removed “CDER Only” from permissible uses for: .csv, .cas, .dat, .rmd, .r</p> <p>Updated file format added: Modeling & Simulation file types: .pksim5, .mbp3, .pkml, .json, .mlxtran, .mlxproperties, .pkx, .pkxproperties, smlx, .smlxproperties, .syc, .datxplore</p>

Further Increasing Acceptance

- FDA Model Master File (MMF)
 - Master File for standardized model documentation and validation data that FDA can reference across multiple submissions
 - Focuses on regulatory efficiency and consistency through standardization (models can be proprietary OR open-source)
- EMA Qualification Opinion
 - Public scientific opinion **confirming a model/method is suitable** for specific Context(s) of Use in regulatory decision-making
 - Once qualified, sponsors can **use without re-establishing platform credibility**, with all qualification data becoming publicly available
- ...all requires effort = budget = funding



Funding OSP



Funding Sources for OSP

- Software
 - In-Kind Contributions (Bulk of “Ressources”)
 - Individual Stakeholders (Companies & Individuals)
 - Dedicated Industry Sponsoring for Feature Development
 - Grants
- Models & Qualified Content
 - In-Kind Contributions (Bulk of “Ressources”)
 - Individual Stakeholders (Companies & Individuals)
 - Dedicated Industry Sponsoring for CoU Qualification
 - Grants
- → No steady and continuous stream of “funding”, especially for software “maintenance”

Initial Idea: OSP Foundation

- Institutionalization of the project “open system pharmacology” in a non-profit organization (NPO) to promote the public health care system (§ 52 Abs . 2 Nr. 3 AO) and / or to promote science and research (§ 52 Abs . 2 Nr. 1 AO).
- General conditions:
 - NPO must be able to participate in legal transactions
 - participation opportunities for non-profits and for-profits
 - donors, companies (all sizes), individuals, academic partners like universities or other research institutions
 - Contributions can be financial, operational, ideational

Implemented: CLS Foundation
(clsfoundation.org)



COMPUTATIONAL LIFE SCIENCES FOUNDATION

*Advancing Computational Life Sciences through Open
Collaboration*



X



CLS FOUNDATION ACHIEVES US PUBLIC CHARITY CERTIFICATION!

We are now officially certified as a US Public Charity through NGOsource's Equivalency Determination.
Read more about this milestone and what it means for global open science collaboration.

[Read the News](#)

the R&D landscape through open cooperation and innovation.

[ABOUT OUR FOUNDATION](#)

[SUPPORT OUR MISSION](#)

[HOME](#)[PROGRAMS](#)[EVENTS](#)[NEWS](#)[STORIES](#)[DONATE](#)[ABOUT](#)[CONTACT US](#)

SUPPORT OUR MISSION

Help us drive innovation in life sciences through open source software

 [SUPPORT](#) [SPONSOR](#) [DONATE](#)

Interested in other ways to support our mission? [Contact us](#) to discuss corporate giving, matching programs, or planned donations.

SUPPORT

Support is directed towards specific projects or initiatives. By supporting our projects, you help ensure their continued development and maintenance.

OSP SUITE WEB UI (FOR MAC)

Support the development of our OSP Suite Web UI

SUPPORT SPECIFIC FEATURE IMPLEMENTATION

What can the CLS Foundation stand for?

- A means to empower the Community with the funding received from Foundation/Consortium Member Organizations
- Funding of:
 - Integrative Efforts for the Software/Models Ecosystem,
 - Enabling 3A: Availability, Accessibility, and Acceptance
 - Qualification and Regulatory Acceptance
 - Organize Events (Connect to Collaborate),
 - Synergy-Driving activities, and
 - (seed-fund?) Focus Group Initiatives

THANK YOU!

- Feedback Form
 - Use throughout for any feedback
- Questionnaire
 - For structured post-conference feedback

