

Sciences de la Vie



Association Française
des Sociétés de Services et d'Innovation



Centre de recherche
FRANCAIS

afssi.fr



Le partenaire incontournable de vos innovations



Les membres AFSSI
ont la parole „

WEBINAIRE

Qui suis-je ?

La réponse
en 20 min



Association Française
des Sociétés de Services et d'Innovation



Proche de chez vous



Make your drug development a success!



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Les **membres AFSSI**
ont la **parole** , ,

WEBINAIRE

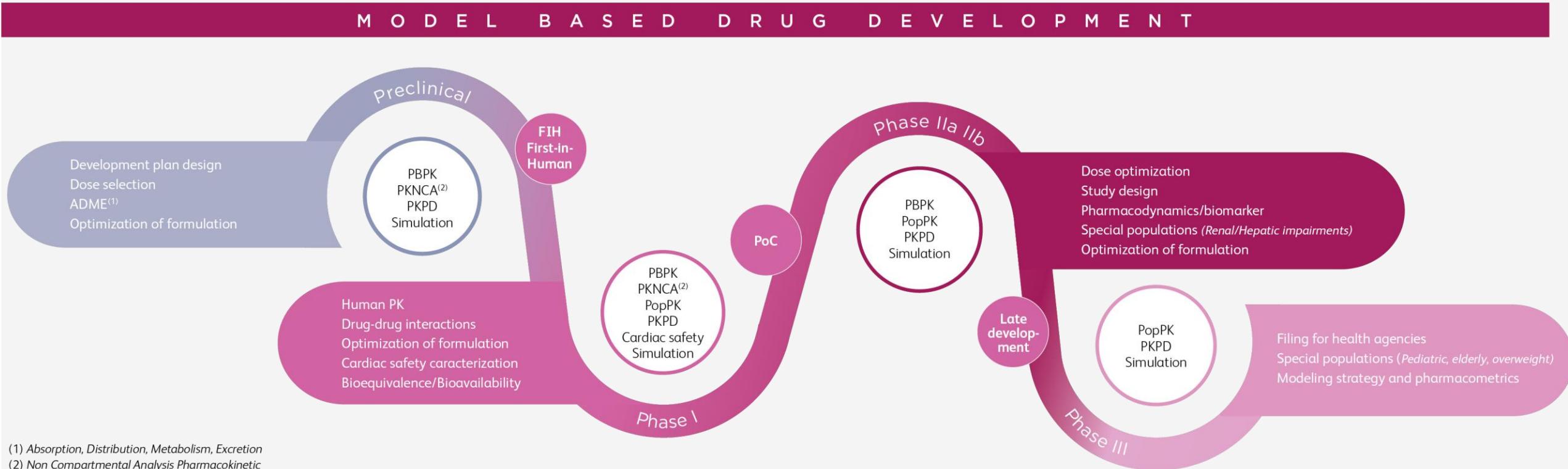


NOTRE ACTIVITÉ

Aide à la prise de décisions concernant le développement de médicaments en utilisant l'ensemble des **outils existants de pharmacologie et de modélisation et de simulation pharmacométriques (M&S)**

WE GUIDE YOU THROUGH YOUR ENTIRE DRUG DEVELOPMENT PROCESS

From Drug candidate to Patient Proof of Concept (PoC)

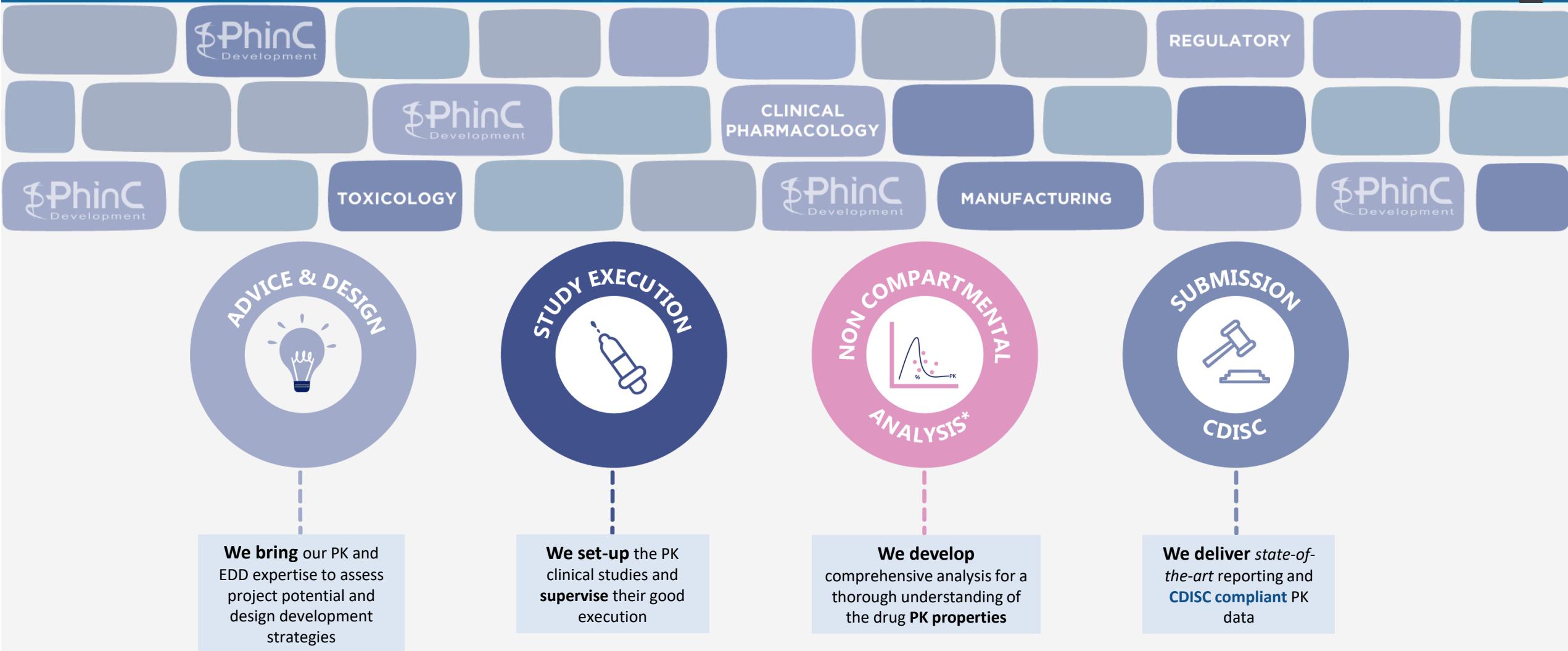


(1) Absorption, Distribution, Metabolism, Excretion

(2) Non Compartmental Analysis Pharmacokinetic



PHARMACOKINETICS, AN ESSENTIAL BRICK IN YOUR DRUG DEVELOPMENT



Thanks to our clinical vision we guarantee a coherent PK & PD assessment throughout your development



PBPK | Physiologically Based Pharmacokinetics

With relevant *in vitro*, preclinical or clinical data at hand, a PBPK model is assembled to characterize and predict the drug's ADME. PBPK approaches allows you to consider all the drug's behavior in one model to determine the best dose and dose regimen.

PBPK enables predictions **based on actual physiological and physiochemical knowledge.**

- First In Human dose prediction
- Optimize drug formulation
- IVIVC (In vivo in vitro correlation)

- Simulation of PK profiles in special population
- Likely magnitude of Drug-Drug interaction

- Mechanistic ADME
- Simulate the change in administration route
- Assess modified release formulation

In partnership with

 **SimulationsPlus**



DISCOVER THE BENEFITS OF PHARMACOMETRICS

PopPK | Population Pharmacokinetic

This sophisticated analysis gathering all your clinical data and using statistical algorithms allows you to consider all subjects and all timing points.

PopPK allows accurate estimates in:

- Various subject groups, e.g. body, weight, gender, impaired organs, etc.
- Source variability, e.g. food, co-med, time of the day, etc.
- Special population analysis, e.g. elderly, obese, hepatic impairment, renal insufficiency, children, etc.

SUBSTITUTION METHOD TO

Subjective evaluation based on multiple trials and errors

USING THESE TOOLS IN
TARGETED EXPOSURE
WILL LEAD TO:

- Identifying relevant covariates in patients
- Simulating exposure, predicting therapeutic dose, anticipating activity for special populations
- Saving you dedicated studies in special populations
- Coverage of proper dose range
- Phases II and III dose selection rational strength for regulatory authorities

PK/PD | Pharmacokinetic/ Pharmacodynamic

Knowing the relation between exposure and response allows you to be more efficient by using optimized drug concentrations.



Clear targets will avoid **starting too low (efficacy)** or **escalating too high (safety)**.

SUBSTITUTION METHOD TO

Subjective evaluation
Qualitative evaluation

USING PK/PD WILL QUANTIFY TARGETED EXPOSURE, WHICH **WILL LEAD TO:**

- Phases I and II cohorts number reduction (money, time and patient exposure savings)
- Coverage of proper dose range
- Phases II and III dose selection rational strength for regulatory authorities.



Les membres AFSSI ont la parole

Les points clés à retenir

- La Pharmacométrie est une discipline transverse, désormais reconnue et pleinement intégrée au développement de médicament
- Règle des 3 “i”: intégratif, itératif et interactif
- Nécessité d'être déployé en lien avec la stratégie globale du développement
- Penser le positionnement des Sociétés de Services Innovants :
 - Prestation de recherche ciblée
 - Connaissance mutuelle pour créer une synergie d'offre
 - Conseil auprès de Biotech à très haute valeur ajoutée