



PART FOUR

# Advancing International Pediatric Clinical Research

Facilitating Pediatric Medicines Development:  
Models of Global Cooperation

Part 1: 29 November 2022, 9:00-11:30 am ET

Part 2: 30 November 2022, 9:00-11:00 am ET



This series is supported by the FDA Scientific Conference Grant Program.



**MULTI-REGIONAL  
CLINICAL TRIALS**

THE MRCT CENTER of  
BRIGHAM AND WOMEN'S HOSPITAL  
and HARVARD

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- This webinar will be recorded and will be posted publicly on our YouTube channel.



# Part One Recap



- Presentations of 4 existing models of pediatric regulatory approval:
  - Pediatric Regulatory Cluster: Dr. Donna Snyder (US FDA)
  - Parallel Scientific Advice: Dr. Tahira Khan (AbbVie)
  - ACCELERATE Multi-Stakeholder Discussion Forum: Dr. Gilles Vassal (ACCELERATE)
  - Reliance Model: Dr. Marie Valentin (WHO)
- Panel Discussion: *Strengths and Opportunities of Existing Models of Global Cooperation*



# Today's Agenda



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- Presentation: *Moving Towards Greater Global Cooperation for Pediatric Medicines Development*
- Panel Discussion: Actions Towards Improving Existing Processes and Looking Toward the Future
- Wrap-up/moving ahead



# Moving Towards Greater Global Cooperation for Pediatric Medicines Development



**Christina Bucci-Rechtweg**  
Novartis Pharmaceuticals  
Corporation





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Facilitating Pediatric Medicines Development:  
Models of Global Cooperation



30 November 2022

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# Task & Outline of today's talk



- Task
  - Consider the models of global cooperation presented on Day One and provide a blue sky view of how to evolve the pediatric medicines cooperation space
- Outline
  1. Reflection on Day One presentations
  2. The interplay of convergence pathways and existing gaps
  3. Opportunities: A blue sky vision





# High-level messages from Day One



- Existing pediatric development policies have enriched the innovative medicines development research space
- For certain molecules, authorization of pediatric uses continues to lag well behind adult authorization<sup>1</sup>
- Globally relevant and efficient pediatric medicines development requires global cooperation
  - In cluster calls, EMA and FDA have a high rate of convergence (~70%)<sup>2</sup>
- Reliance models can be used for any regulatory function<sup>3</sup>
- Models discussed on Day One of the workshop **each serve a useful purpose**, are **complementary** and **not mutually exclusive**
  - ✓ Pediatric Cluster; Parallel Scientific Advice; Multi-stakeholder Forums (ACCELERATE); Reliance

<sup>1</sup>Gilles Vassal, Gustave Roussy. Presentation on Day One.; <sup>2</sup>Donna Snyder, FDA. Presentation on Day One.;

<sup>3</sup>Marie Valentin, WHO. Presentation on Day One.

EMA = European Medicines Agency; FDA = U.S. Food & Drug Administration



# Three archetypes of pediatric medicines development



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## *De novo* pediatric medicines development

- For indications specific to or inclusive of pediatric conditions

## Pediatric development on the *backbone* of adult innovation

- For same or similar indications, different indications by molecular mechanism of action, or age-specific formulations



## *Re-purposing* off-patent medicines

- Age-specific formulations, confirmation of age-specific dose or dose regimens

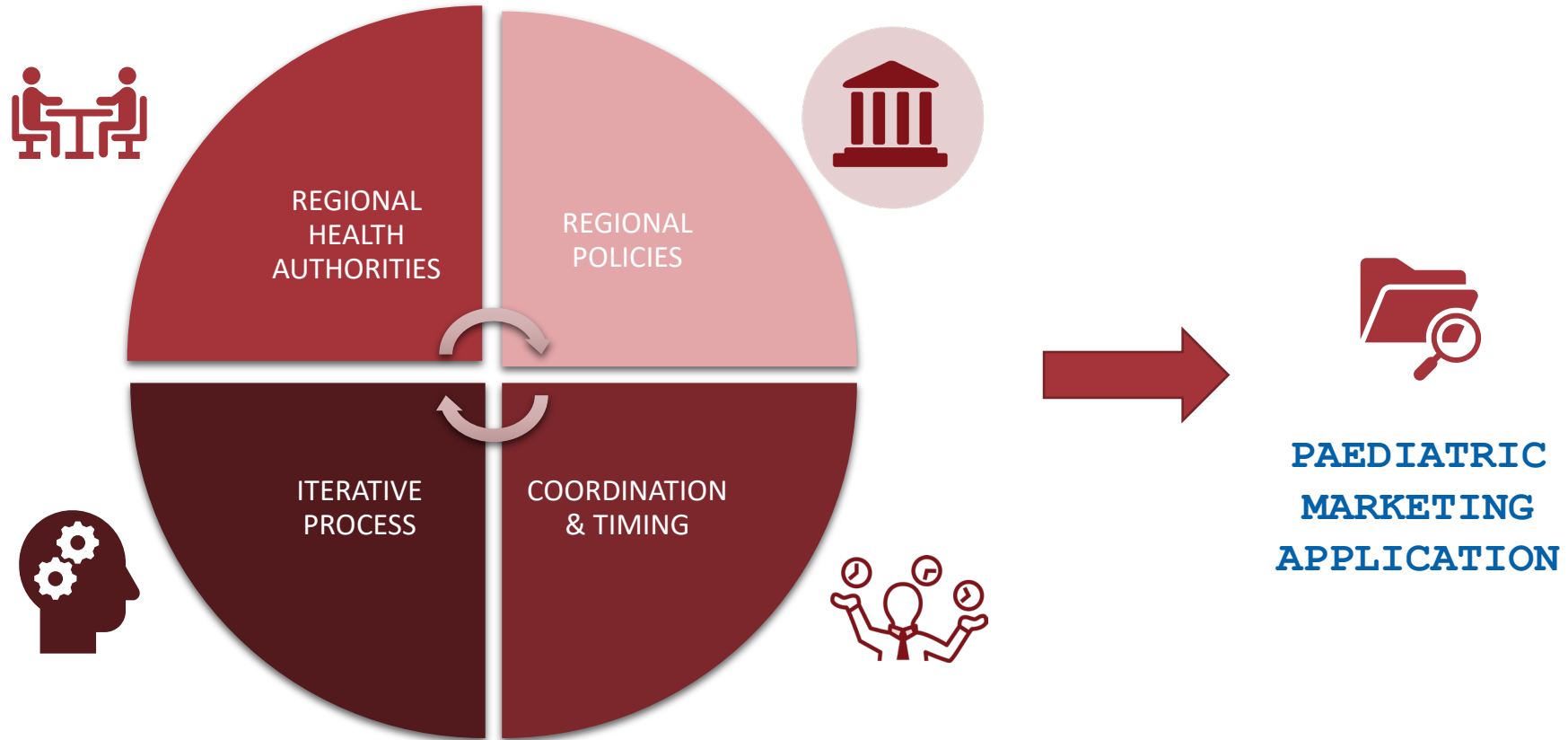


# Agreeing a global pediatric plan suitable for regulatory decision-making (1)



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## MULTI-STAKEHOLDER FORUMS

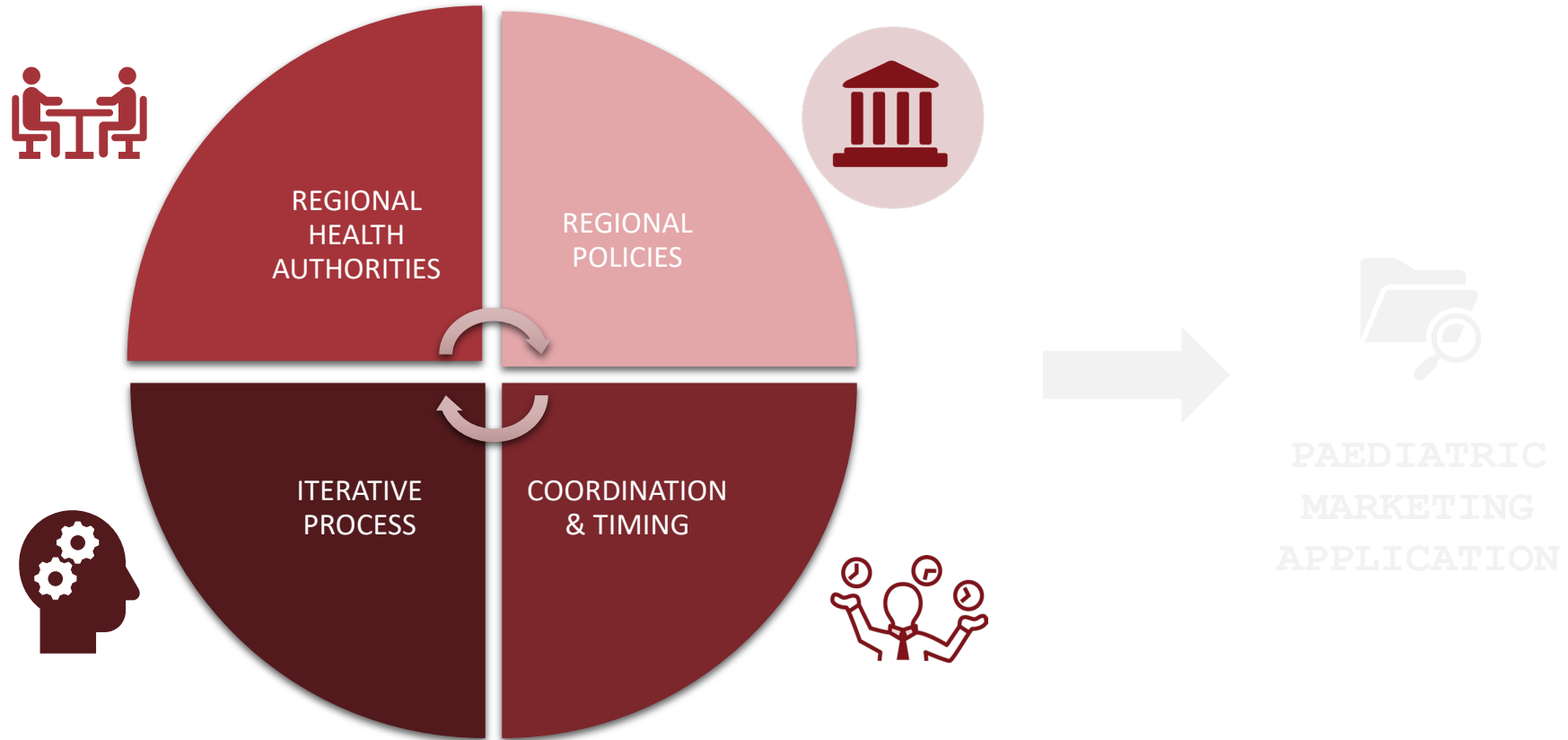


# Agreeing a global pediatric plan suitable for regulatory decision-making (1)



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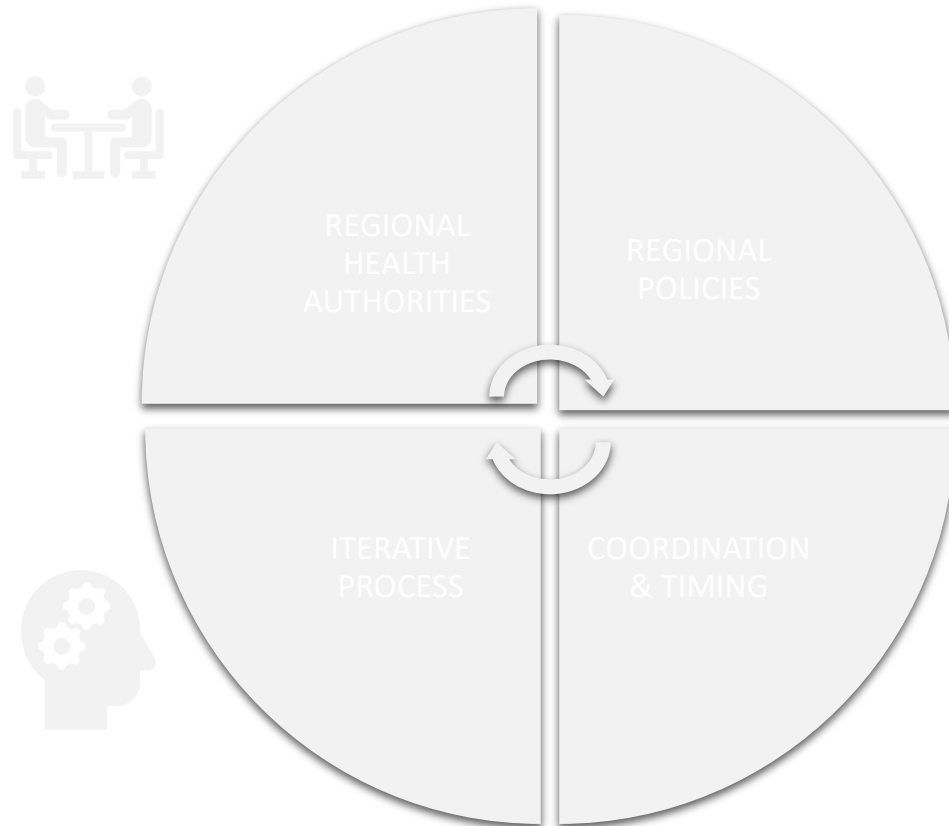
## MULTI-STAKEHOLDER FORUMS



# Agreeing a global pediatric plan suitable for regulatory decision-making (1)



## MULTI-STAKEHOLDER FORUMS\*

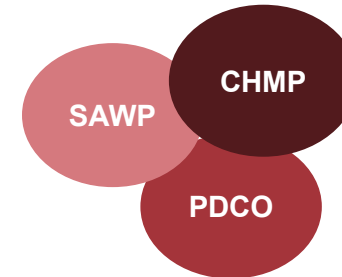


- ✓ Essential to incorporate academic/prescriber and patient/family perspectives
- ✓ Valuable in establishing development expectations grounded in best available scientific information
- ✓ Existing forums are pre-competitive by design
  - Limited to specific therapeutic spheres
  - Role for professional societies (as per adult development)
- ✓ Existing structures are suited to investigational projects in later stage development

\*Examples include but are not limited to: ACCELERATE, Innovative Medicines Initiative (IMI) connect4children (c4c) strategy forums, Paediatric Rheumatology International Trials Organisation (PRINTO)



# Agreeing a global pediatric plan suitable for regulatory decision-making (2)

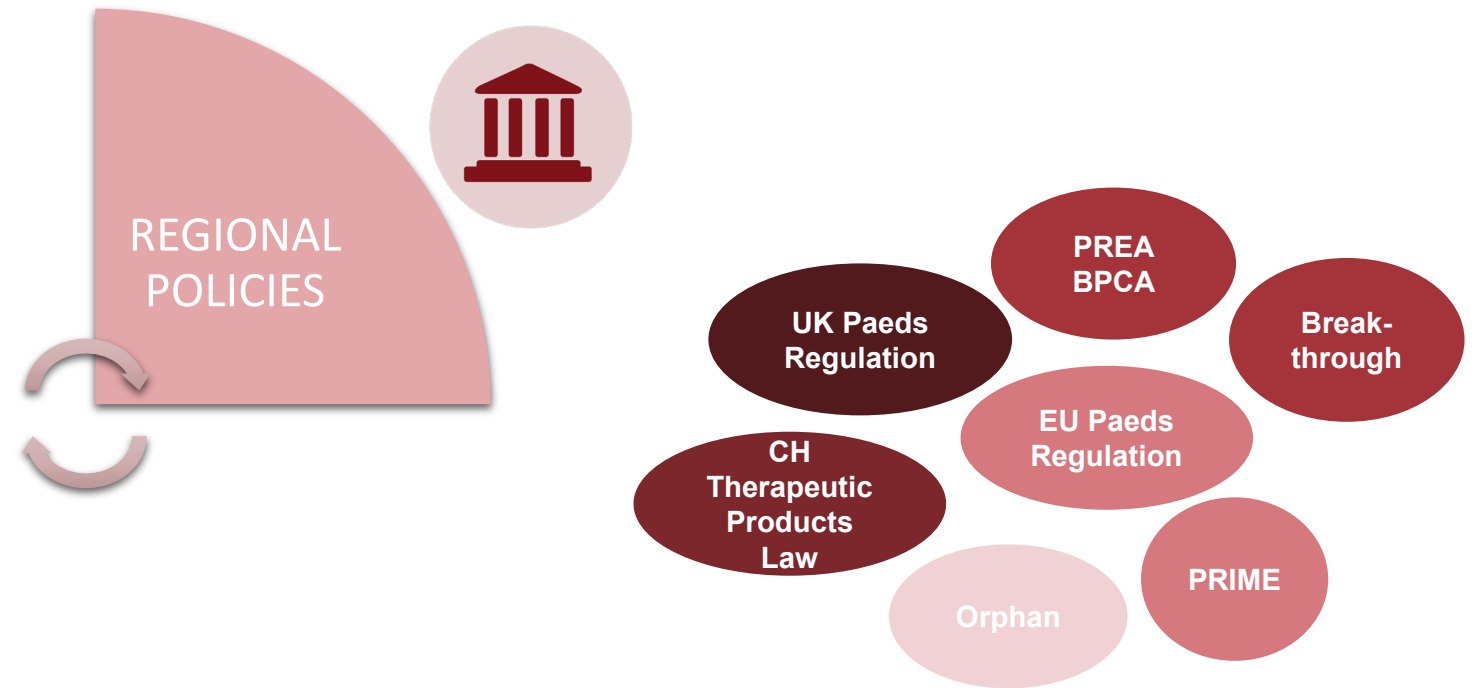


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\*Not an exhaustive list (intended to be illustrative only)  
ICH = International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use

# Agreeing a global pediatric plan suitable for regulatory decision-making (3)



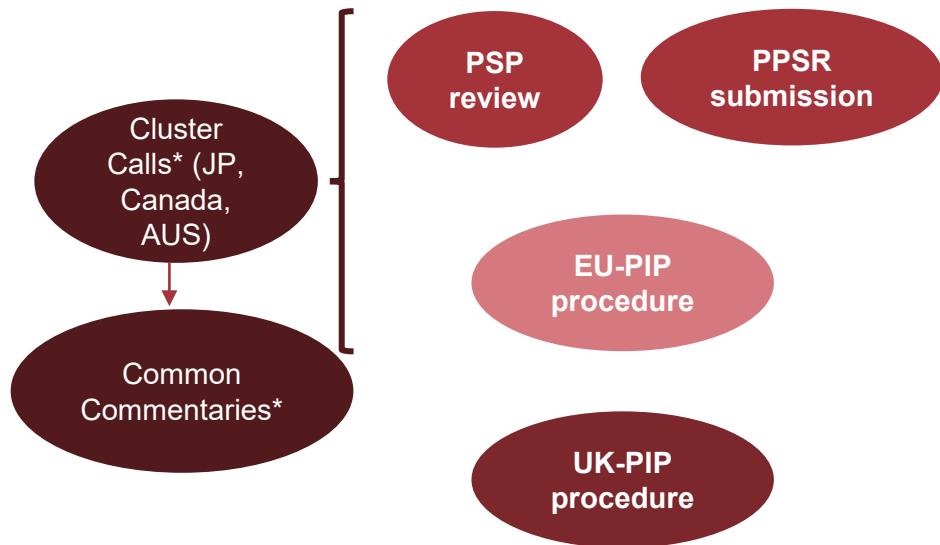
CH = Switzerland; UK = United Kingdom; EU = European Union; PREA = Pediatric Research Equity Act;  
BPCA = Best Pharmaceuticals for Children Act



# Agreeing a global pediatric plan suitable for regulatory decision-making (4)

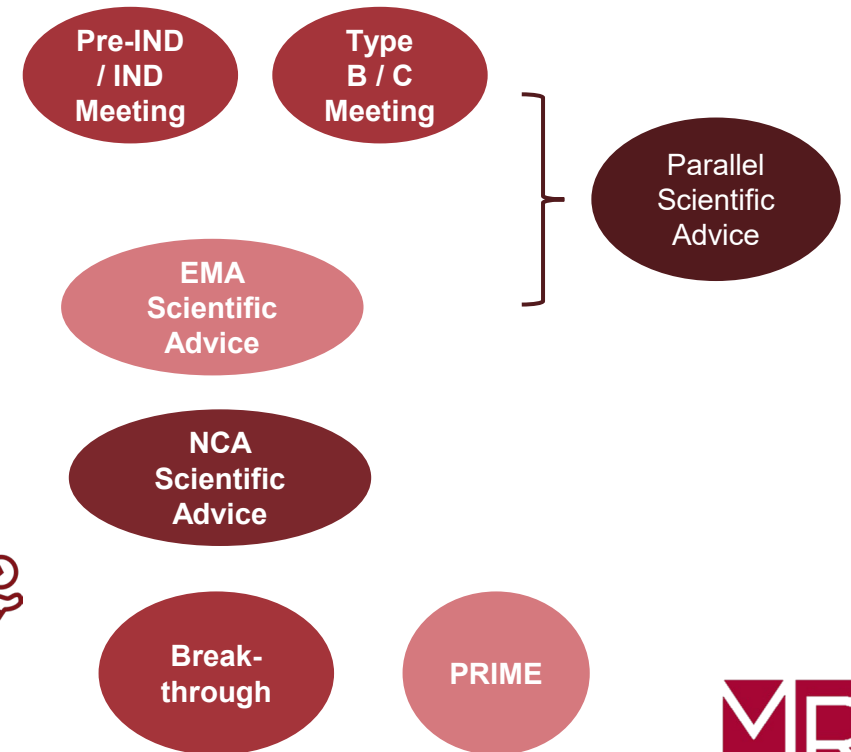


## PEDIATRIC PROCEDURAL PATHWAYS



**RELIANCE PATHWAYS**  
(e.g. Swiss TPL)

## REGIONAL ADVICE PATHWAYS



\*Informal non-binding regulatory feedback

JP = Japan; AUS = Australia; PSP = pediatric study plan; PPSR = proposed pediatric study request; PIP = paediatric investigation plan; TPL =

Therapeutic Products Law; IND = investigational new drug; NCA = national competent authority

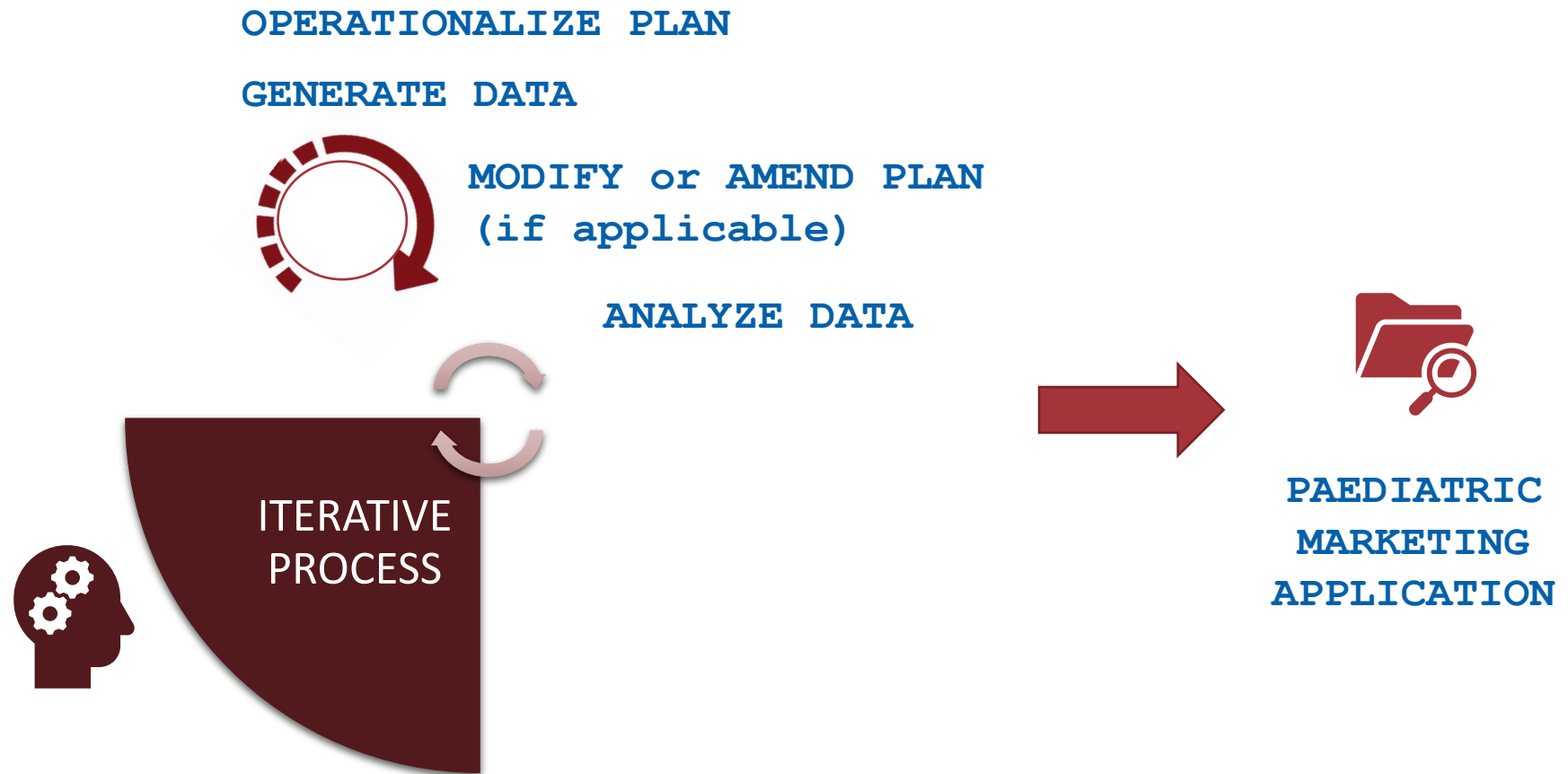
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# Agreeing a global pediatric plan suitable for regulatory decision-making (5)

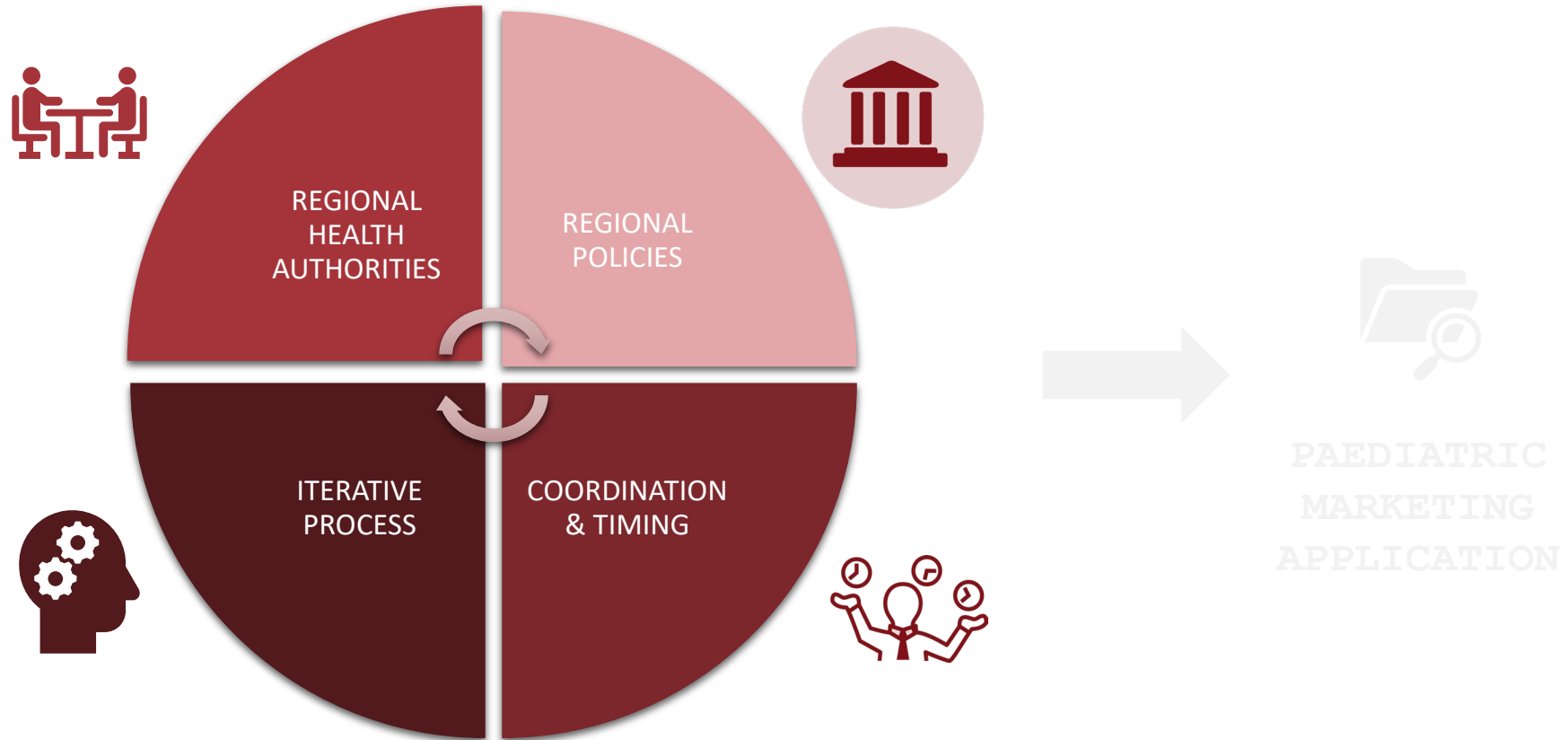


# Blue Sky Vision: Role for global cooperation in pediatric medicines development **planning** (1)



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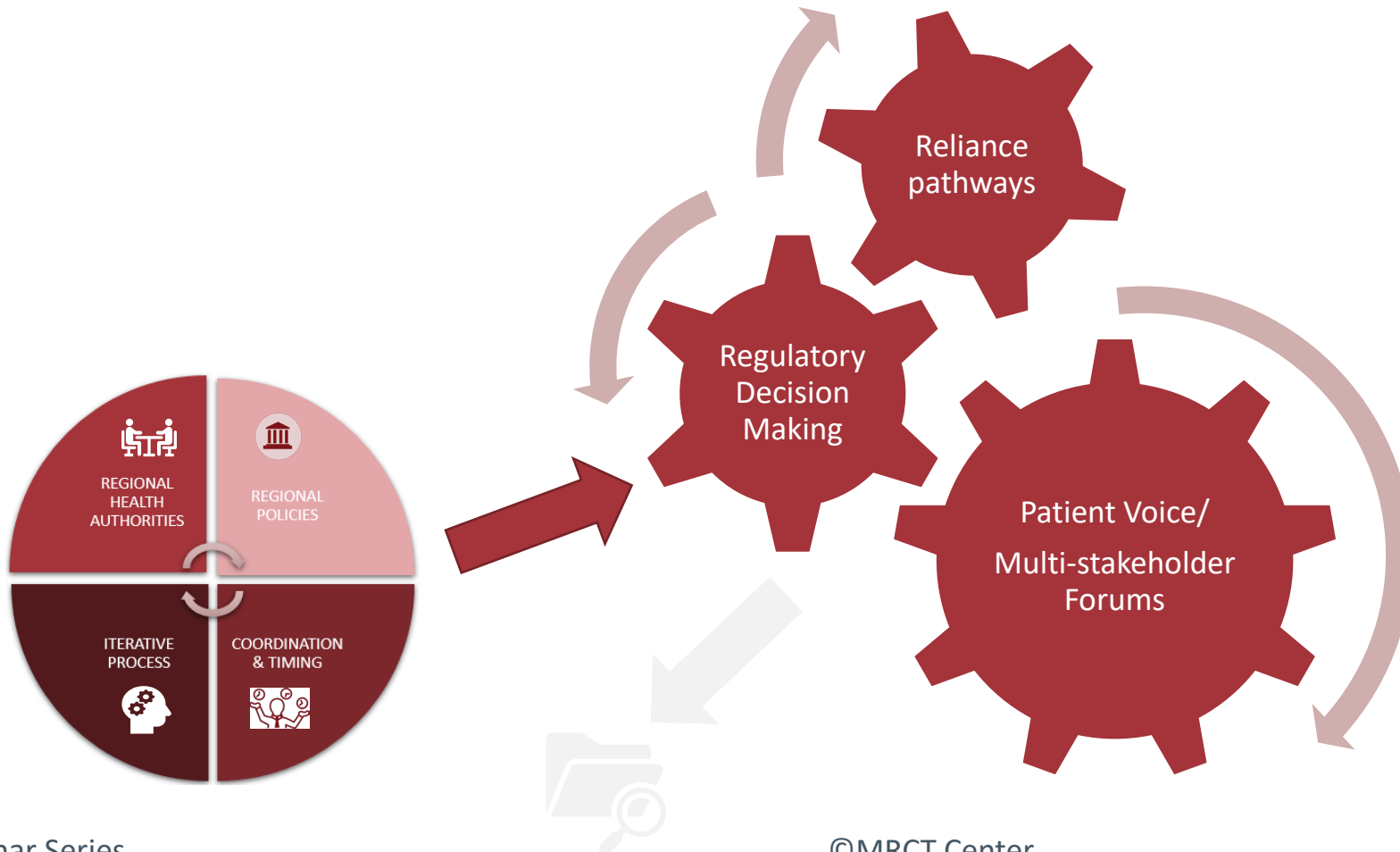
## MULTI-STAKEHOLDER FORUMS



# Blue Sky Vision: Role for global cooperation in pediatric medicines development **planning** (2)



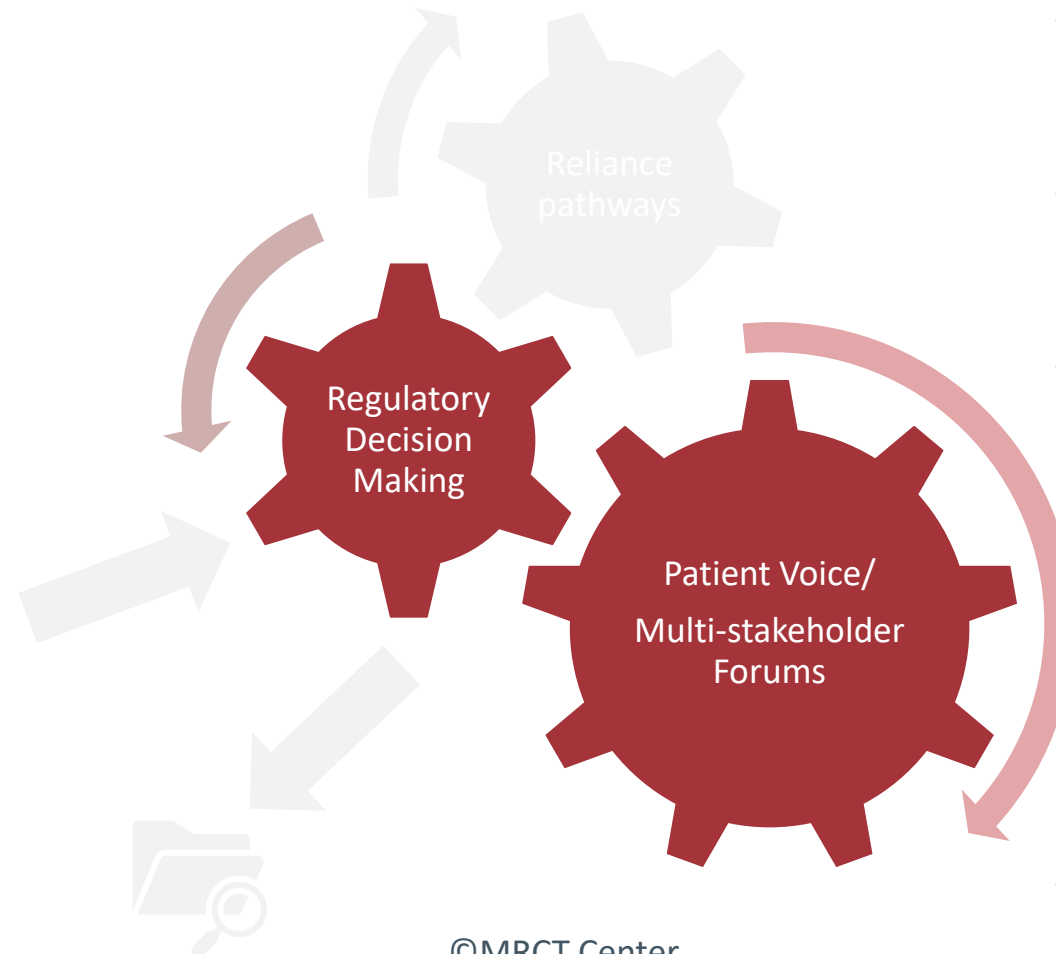
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# Blue Sky Vision: Role for global cooperation in pediatric medicines development **planning** (3)



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## **Multistakeholder Forums**

- ✓ Enhance inter-linkage to regulatory guidance (esp. when co-authored by regulators)
- ✓ Expansion to other therapeutic areas a/o competitive development spheres
- ✓ If intended to expand to early stage development, some structural modification is needed (consultancy agreements, confidentiality, published outputs clearly linked into relevant regulatory agency websites and/or incorporated into guidance)
- ✓ Role for professional societies



# Blue Sky Vision: Role for global cooperation in pediatric medicines development **planning** (4)



## Cluster

- ✓ Expansion to all regions where pediatric policies are implemented (including, MHRA and SwissMedic)
- ✓ If a Cluster leads to Common Commentary, agencies should review prior Scientific Advice Meeting Minutes to reduce risk for contradictory regulatory guidance

## Parallel Scientific Advice

- ✓ A dedicated global pediatric scientific advice pathway is warranted for the 1/3 of pediatric plans where convergence on design elements cannot be achieved in Cluster



## Reliance

- ✓ Given the “*high rate of convergence*” of Cluster conversations, 2/3 of pediatric plans may be suitable to a reliance procedure (i.e., to agree a pediatric plan)
- ✓ **Model 1** (existing): Switzerland - Reliance on US a/o EU decision on an agreed pediatric plans (at submission of marketing authorization)
- ✓ **Model 2**: Submission of a PIP or PSP through usual regional procedure. Cluster held to coincide within a region’s procedure or agencies invited to listen as per *pediatric memorandum of understanding (or other)*. At completion of the procedure, other agencies have the option to adopt the reviewing agency’s opinion for the plan.



# Closing Remarks



- Regional policies have given us over two decades of pediatric medicines development experience
- We have an opportunity to evolve
- Global cooperation offers opportunities for enhancement
  - Enhance the scientific credibility and value of plans
  - Facilitate broader global impact for children affected by disease
  - Reduce inefficiencies while conserving regulatory resource

*“Coming together is a beginning. Keeping together is progress. Working together is success.” – Henry Ford*



# THANK YOU



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# Panel Discussion: Actions Towards Improving Existing Processes and Looking Toward the Future



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**Peter Adamson**  
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**Ralph Bax**  
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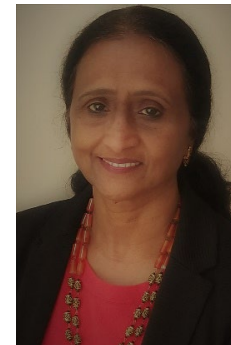
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Hospital Sant Joan de Déu



**Sumati Nambiar**  
Johnson & Johnson



**Mark Turner**  
University of Liverpool





# Closing Remarks and Thank you!



- A huge thank you to all our speakers and panelists:

Peter Adamson

Elly Barry

Ralph Bax

Christina Bucci-Rechtweg

Alysha Croker

Begonya Nafria Escalera

Dionna Green

Dominik Karres

Tahira Khan

Franca Ligas

Sumati Nambiar

Skip Nelson

Greg Reaman

Donna Snyder

Mark Turner

Marie Valentin

Gilles Vassal

- And thank you to the dedicated planning committee!



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Thank you!

