

# Applicability of Ayurvedic Products in the European Healthcare

*University of Debrecen*  
*Medical and Health Science Center*

Government-University-Industry Partnership



# *University of Debrecen*

- **Faculty of Medicine**



- **Dept. Pharmacology and Pharmacotherapy**



- **Dept. Traditional Phytopharmacology**

- (University-Industry-Governmental partnership)

# *Indian Materia Medica is of interest for us*

- „key problem” with Western Medicine
  - solves the symptoms caused by acute illness
  - can not cure the chronic, life-long diseases
- **Pharmaceutical companies have renewed their strategies in favor of natural product drug development and discovery**
- **Directive 2004/24/EC of the European Parliament and the Council of 31 March 2004 amending, as regards traditional herbal medicinal products**

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A simplified registration procedure  
(**“traditional-use registration”**) - for herbal medicinal  
products

- oral, external and/or inhalation preparation
- sufficient data on the traditional use of the product  
(bibliographical or expert evidence)
- pharmacological effect or efficacy on the basis of  
longstanding use and experience
- not to be harmful

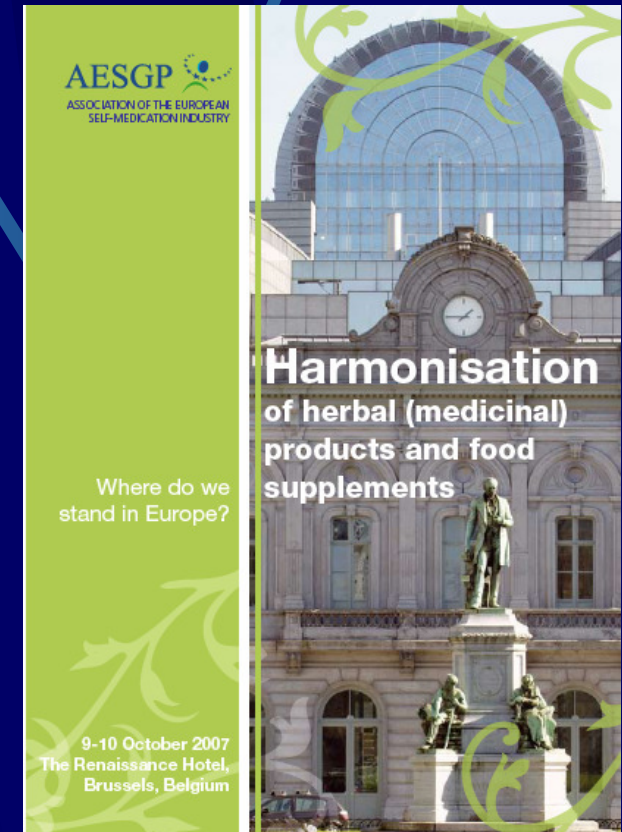
**Directive 2004/24/EC of the European Parliament and the Council  
of 31 March 2004 amending, as regards  
traditional herbal medicinal products,**

**Advantages:**

- pre-clinical tests do not necessary
- possible to reduce the need for clinical trials
- reduced cost of the drug discovery

**Future:**

Committee for Herbal Medicinal Products  
should be established (within the European  
Agency for Evaluation of Medical Product).



## *What should we do?*

- **Integration of the traditional ayurvedic herbal products into „western” medical programs**
- **Drug discovery and registration from ayurvedic herbal products in EU**

## *How can we do?*

- **Common education programs**
- **Pre-clinical and clinical research programs involving ayurvedic graduate and postgraduate students**
- **Triple helix innovative and academic research (bilateral University-Industry-Government Partnership see background)**
- **Drug development program based on traditional ayurvedic herbal medicines**

## *Achievement*

- **Ayurveda credit course structured into graduate education program in the 8th semester for medical students (OK)**
- **Establishment of a Traditional Phytopharmacology department with an emphasis on education and research in traditional Herbal Drug therapy (2005)**



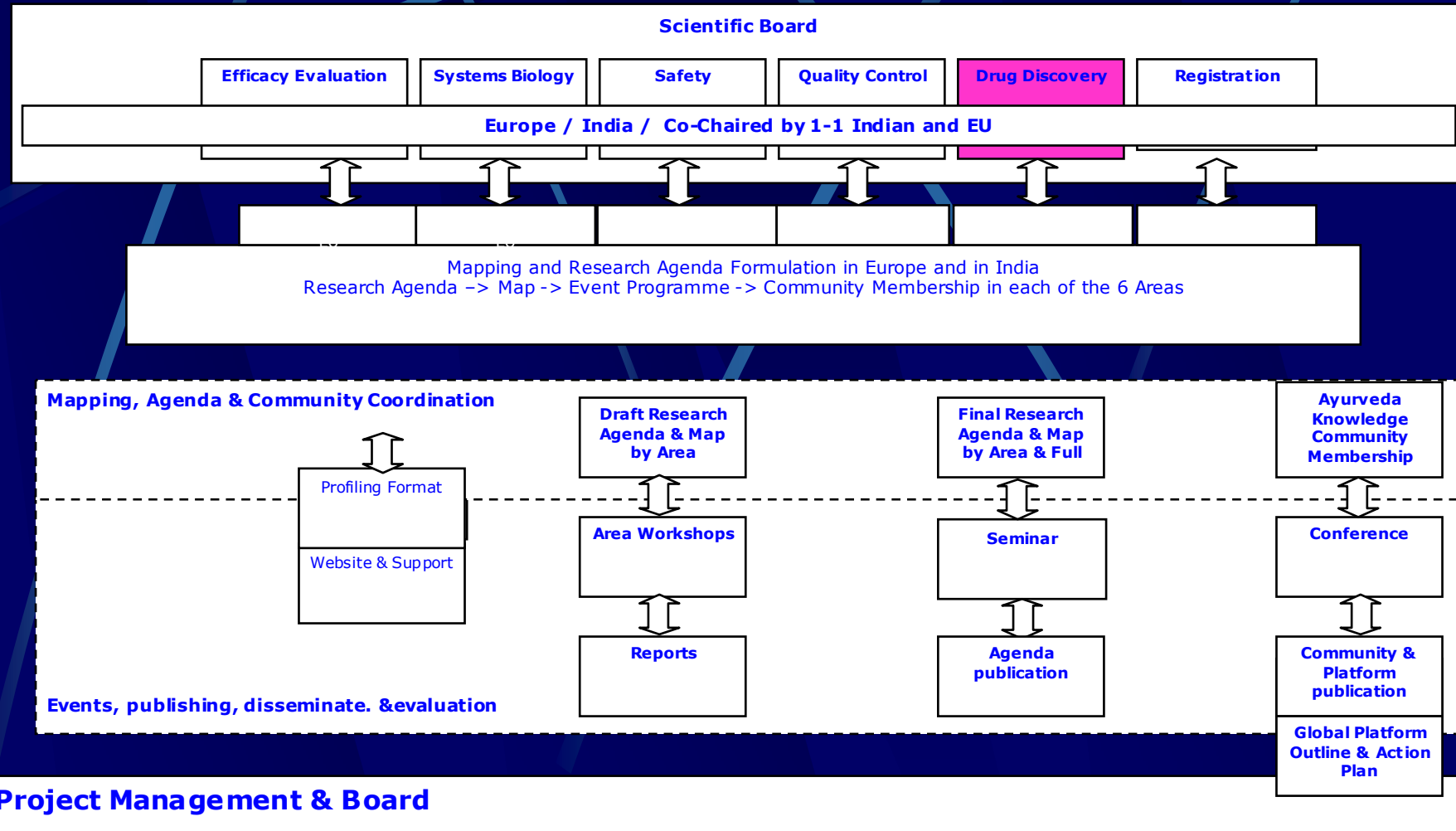
## *What should we need?*

- **Create an inter-continental science and technology collaboration program (between India and EU)**

### **Based on**

- new directive (2004/24/EC of the European Parliament)
- both Ayurveda and TCM have great tradition with strong philosophical basis and could play an important role in new therapies, drug discovery and development

# Proposed organizational structure of inter-continental science and technology collaboration program



Modern Biology-based evaluation on the Efficacy, Safety and Quality of TIM

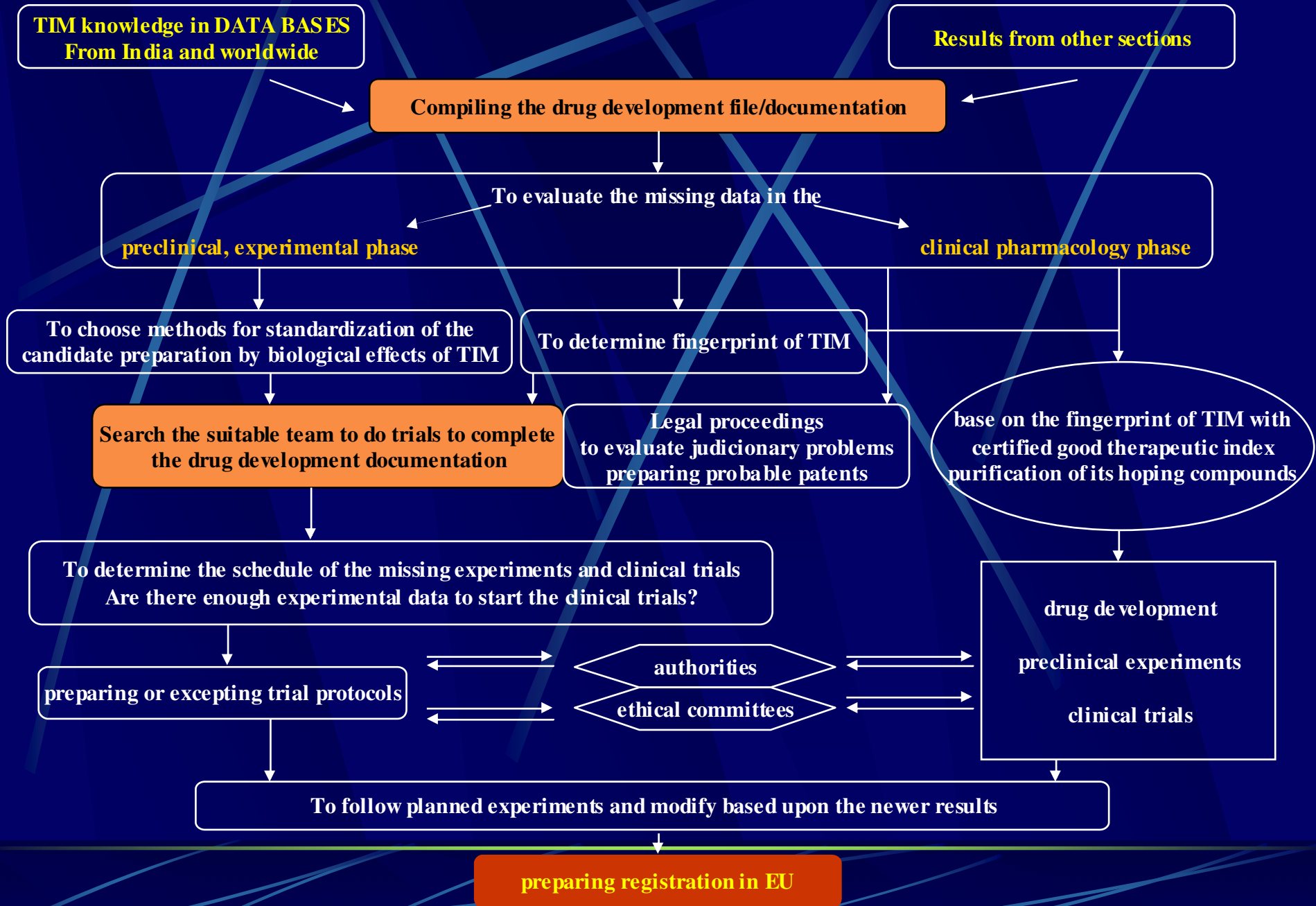
# *Acknowledgement*

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# Drug Discovery from traditional herbal medicines



Univ.-Industry –Government  
Cooperation

Regional Pharma  
Innovation Centre

CRO  
Division

R&D  
Division

Medical  
Devices

Inter-cluster cooperation

Pre-clin. CRO  
Clinical CRO  
Quality manag.  
Industrial  
Pharma.  
Edu.  
GLP Housing

Functional Food  
Trad. Herbal Med.  
Innovative Generic  
Med.  
Original Medicine  
Spin off  
Companies

Regional Health  
Tourism  
*Special topic:*  
Prevention of  
Metabolic  
Diseases

Smart money

Pharma Solution  
Partner  
Pharma / Life Sci. Cluster