

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

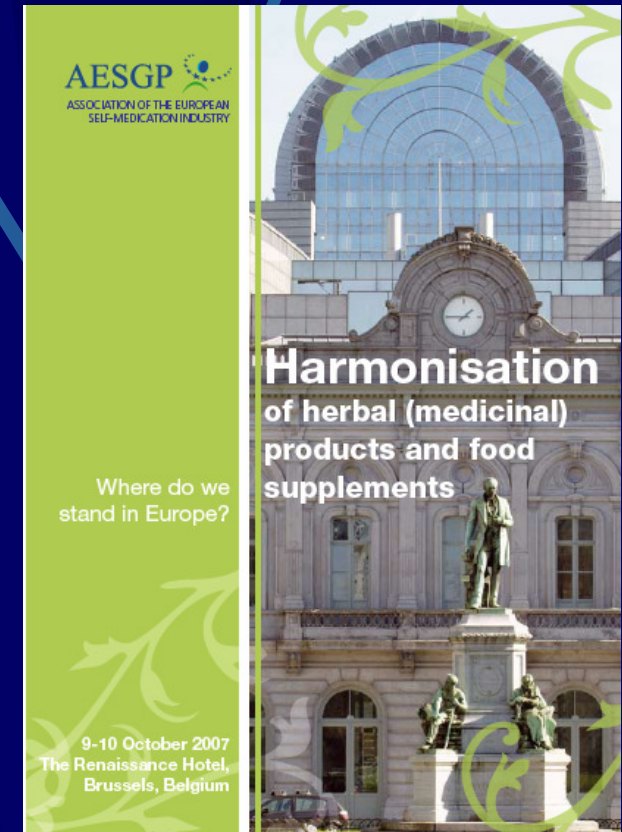
**Directive 2004/24/EC of the European Parliament and the Council
of 31 March 2004 amending, as regards
traditional herbal medicinal products,**

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)**

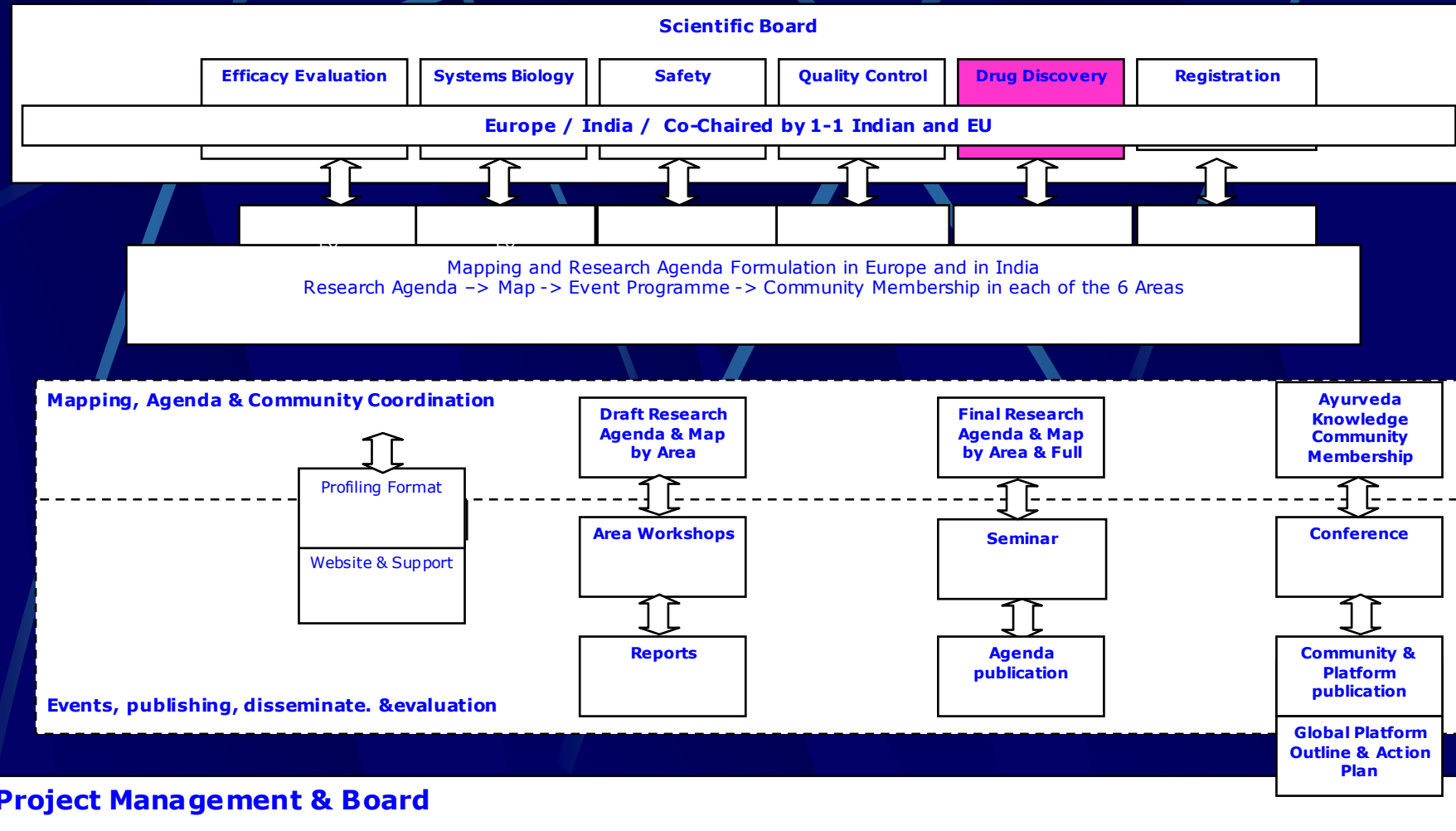
What should we need?

- **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

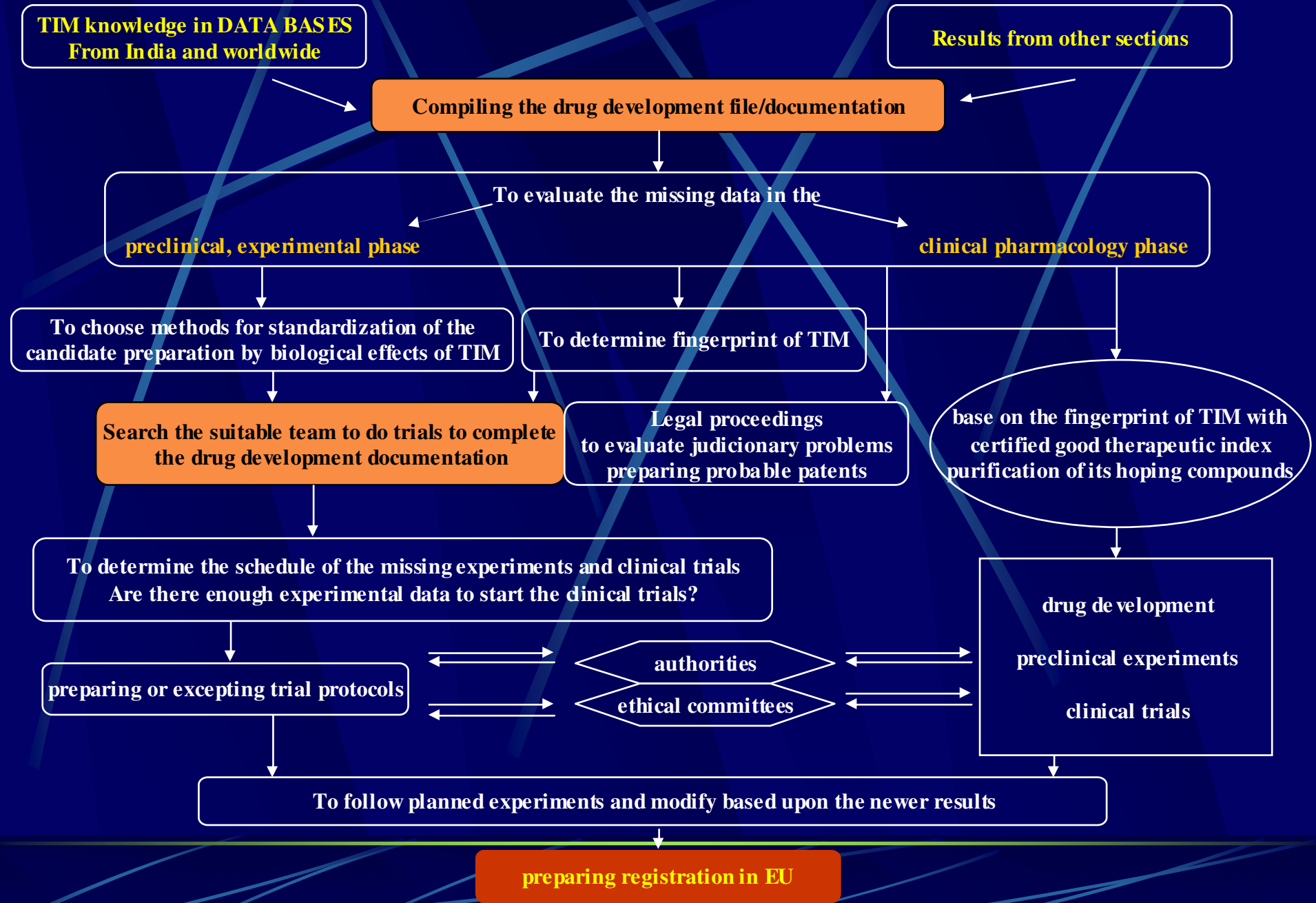
Acknowledgement

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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