genzyme

Orphan Drug Policies: Dynamic Global Landscape

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Overview

- Orphan Drug Policy: Today

- Retelling the story: Patient, Product & Policy

- Access equation

- Orphan Drug Policies: Tomorrow

- Role for collaboration

Our Commitment to Patients

Developing life-saving therapies carries with it the responsibility to increase access to health care for patients around the world
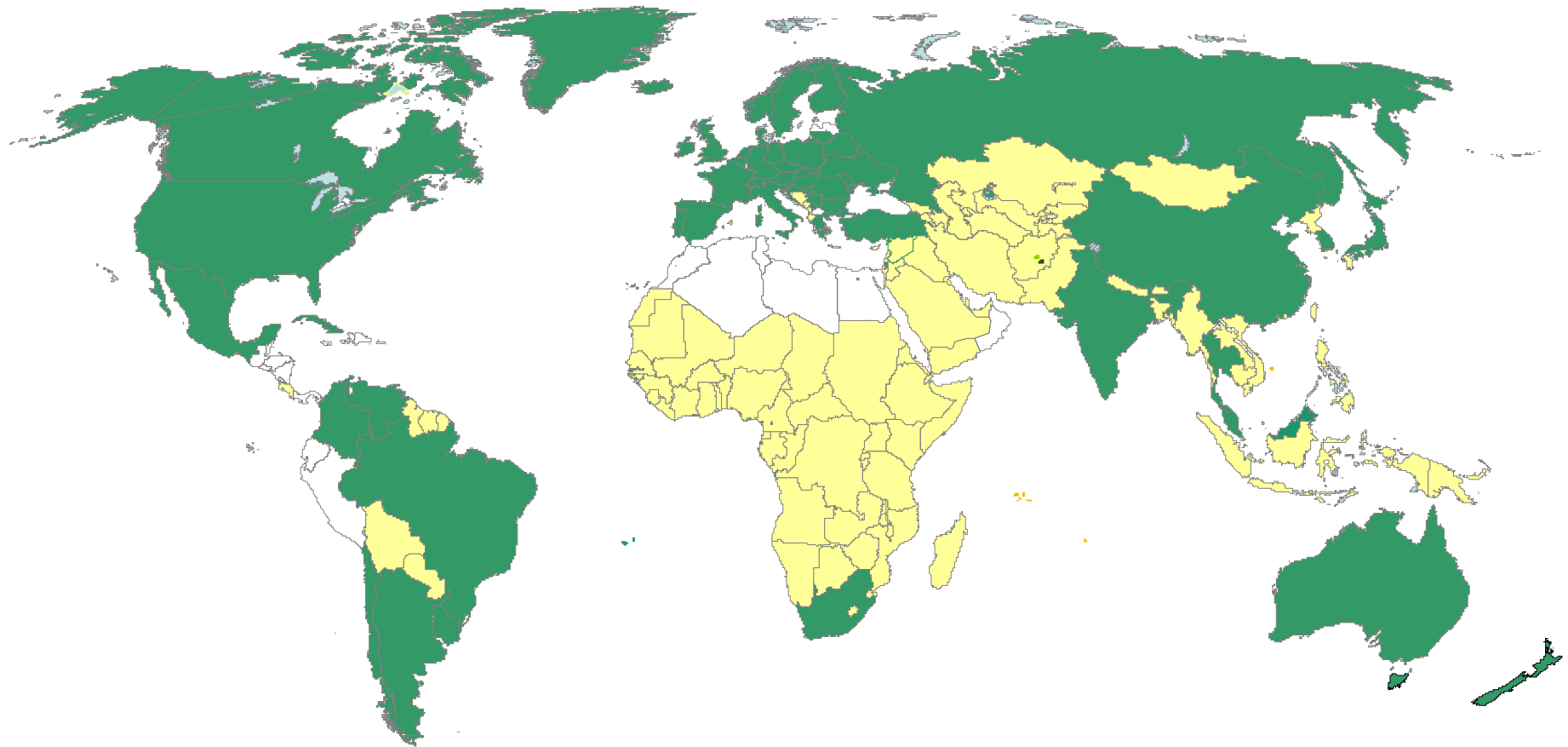

Sponsoring programs to ensure that patients around the world have access to the treatments they need.

Promoting access by working with physicians and governments in developing countries to build sustainable health care systems.
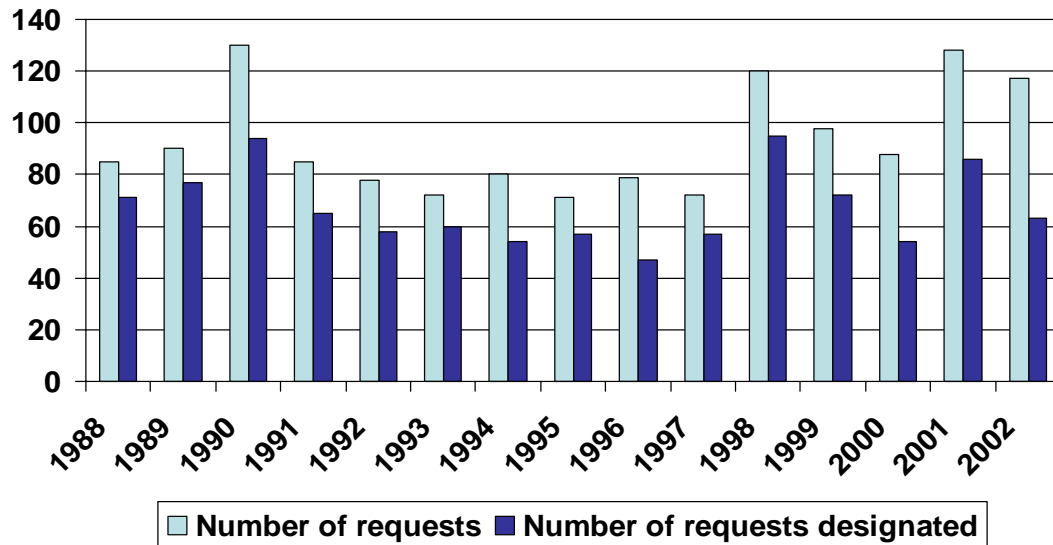
Genzyme Supports Treatment of Patients in ~90 countries

- 🟡 No presence
- 🟢 Direct

Countries with Orphan Drug Policies are Few
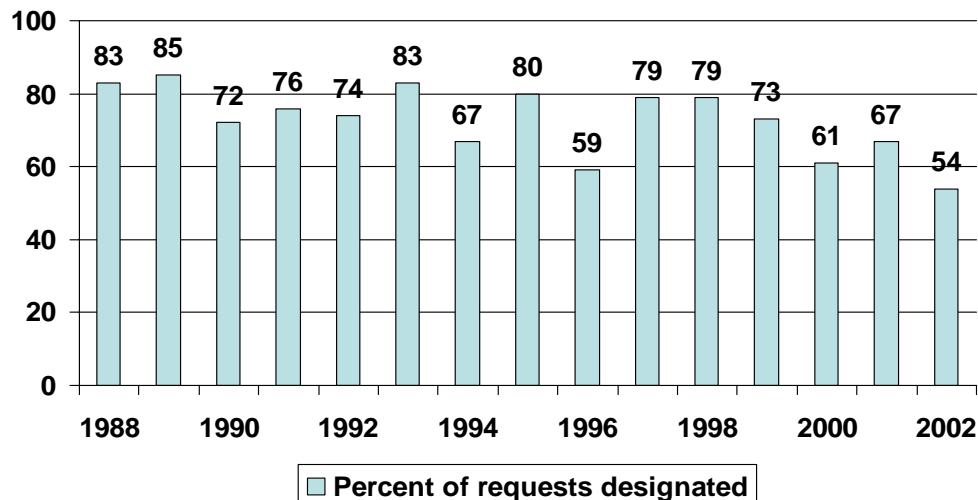
Partial
Formal
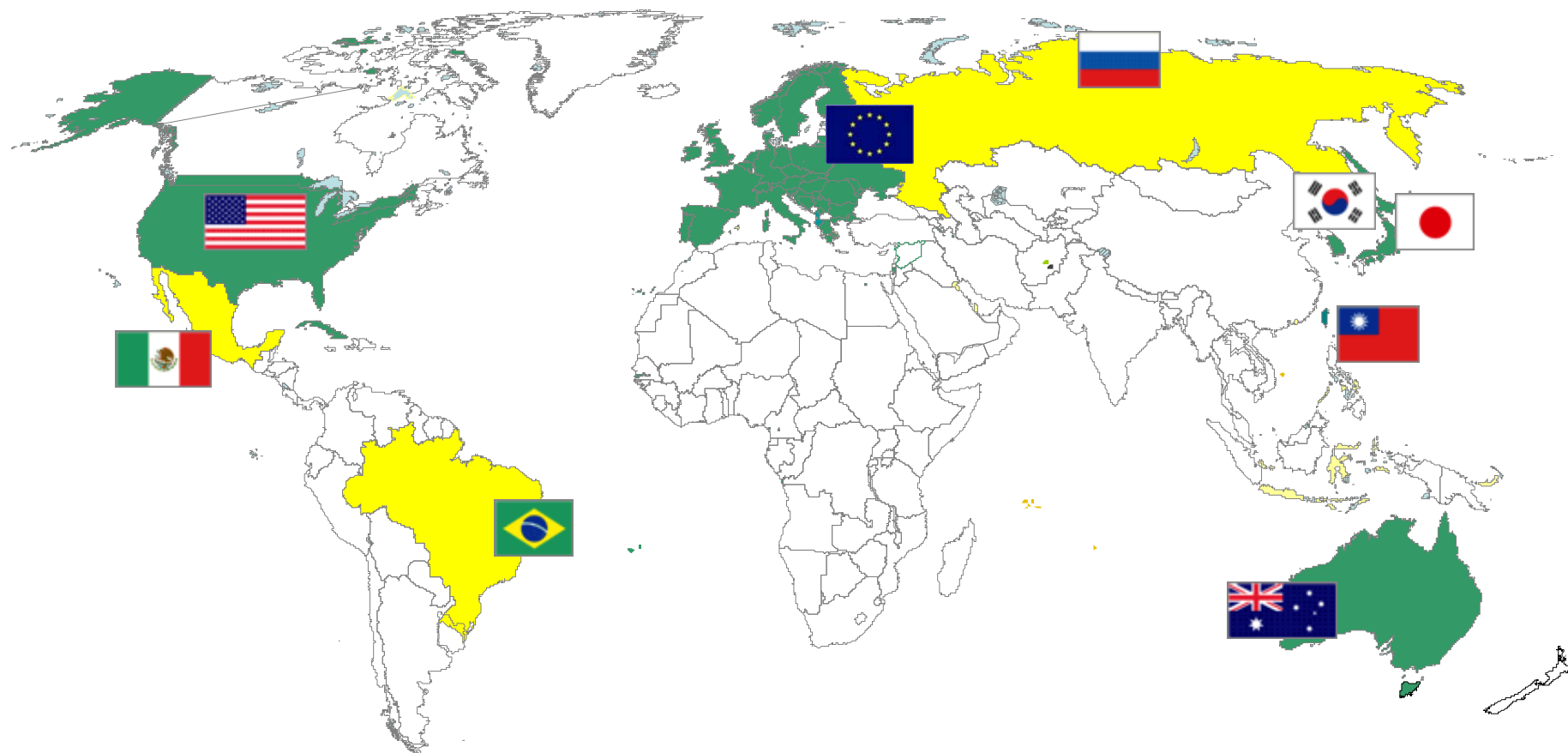
Orphan Drug Policy: Measures of Success

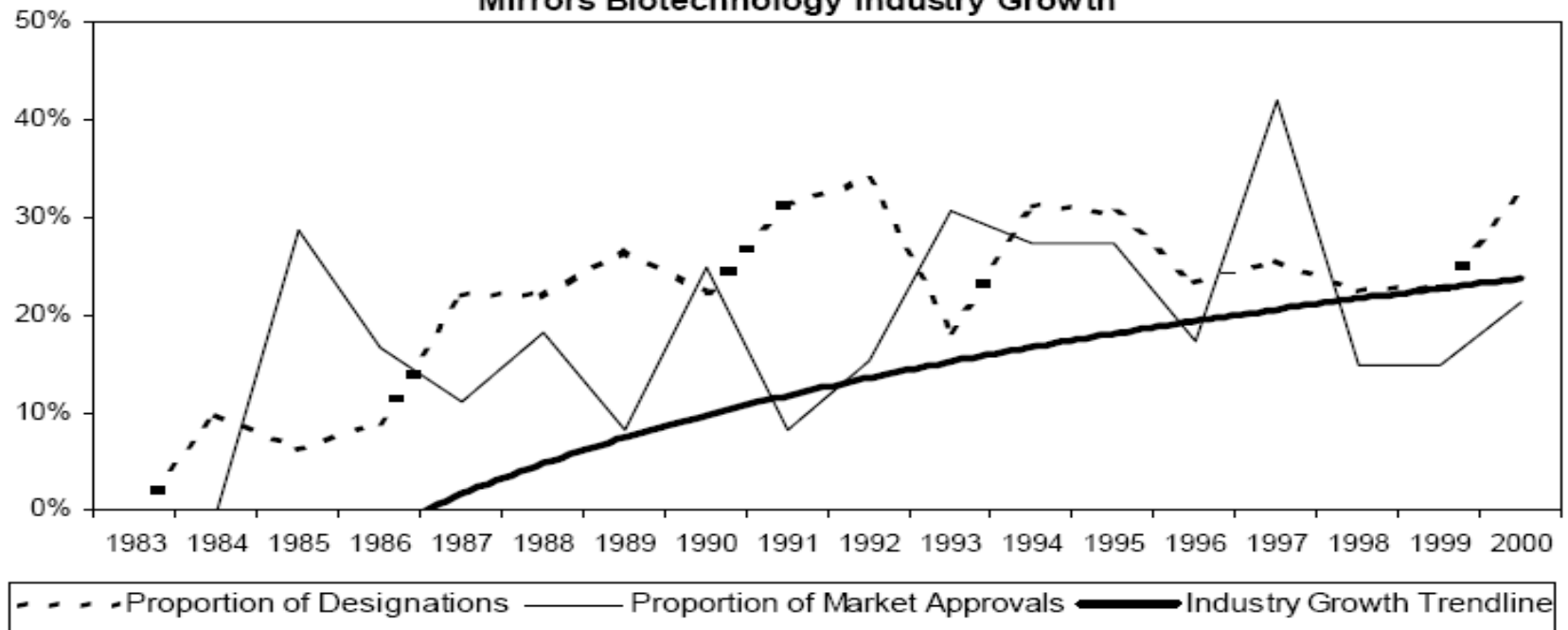- >325 Orphan Products approved since 1983 in US

- >45 Orphan Products approved since 2000 in EU

Biotechnology offers solutions to Rare Diseases

Chart 2
Growth in Biologic Orphan Products
Mirrors Biotechnology Industry Growth

- - - - Proportion of Designations ——— Proportion of Market Approvals ━━━ Industry Growth Trendline

US DHHS OIG: ODA Implementation & Impact, 2001

Patient's Story

Patricia Hand

Helen Walker

Product's Story

STOP
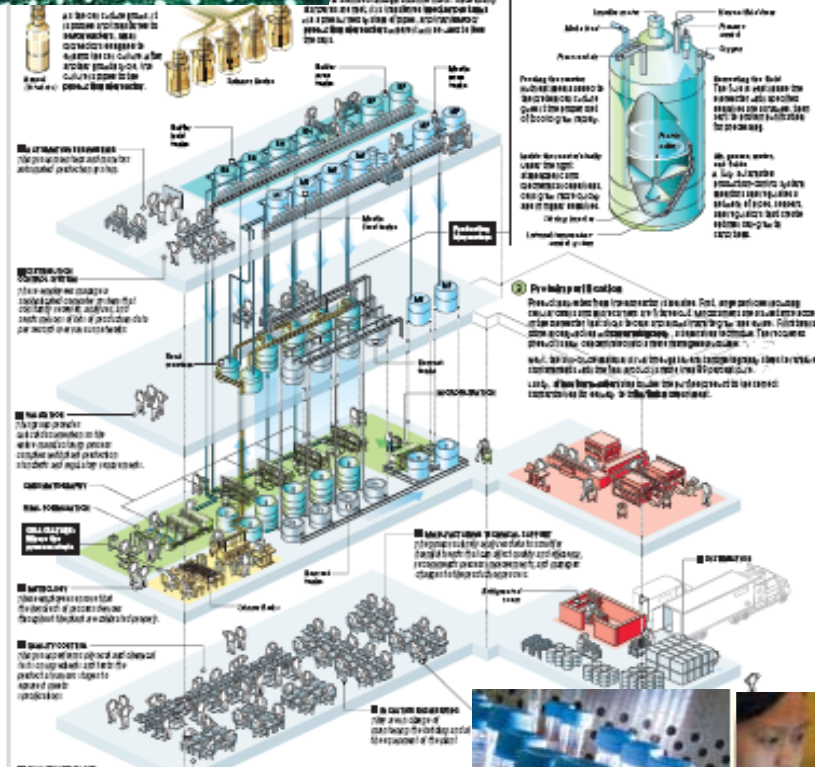
Policy's Story

Awareness

Appreciation

Action

Access Equation is Two-Fold

IP

R&D

Clinical Development

Regulatory Approval

Orphan Drug Policy

concept

approval

Price

Funding

Coverage

HTA

Treatment Guidelines

Payment

Outcomes

Delivery System

Info to Pts

PMC

Compassionate Use

Licensed Product

Patient
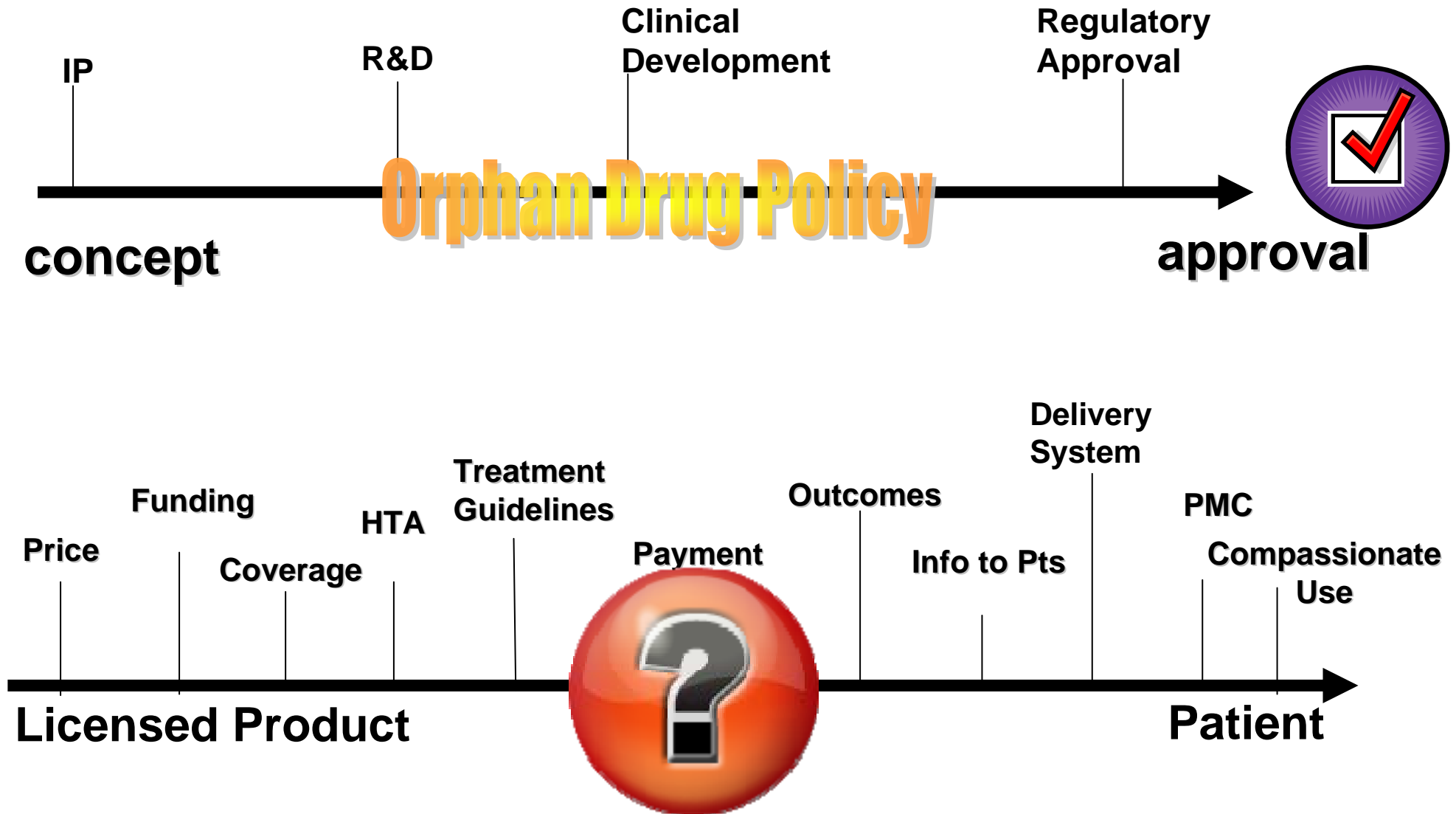
Considerations for Tomorrow's Orphan Drug Policies
#1) "Correlation Creep"

Country Legislation

Science

Innovation

Technology

High Cost

$$\frac{\text{Orphan Drug}}{\text{Rare Disease}} \times \frac{\text{Rare Disease}}{\text{Genetic}} \times \frac{\text{Genetic}}{\text{Biotech}} \times \frac{\text{Biotech}}{\text{Dev Costs}} = \frac{\text{Dev Costs}}{\text{Rarity}}$$
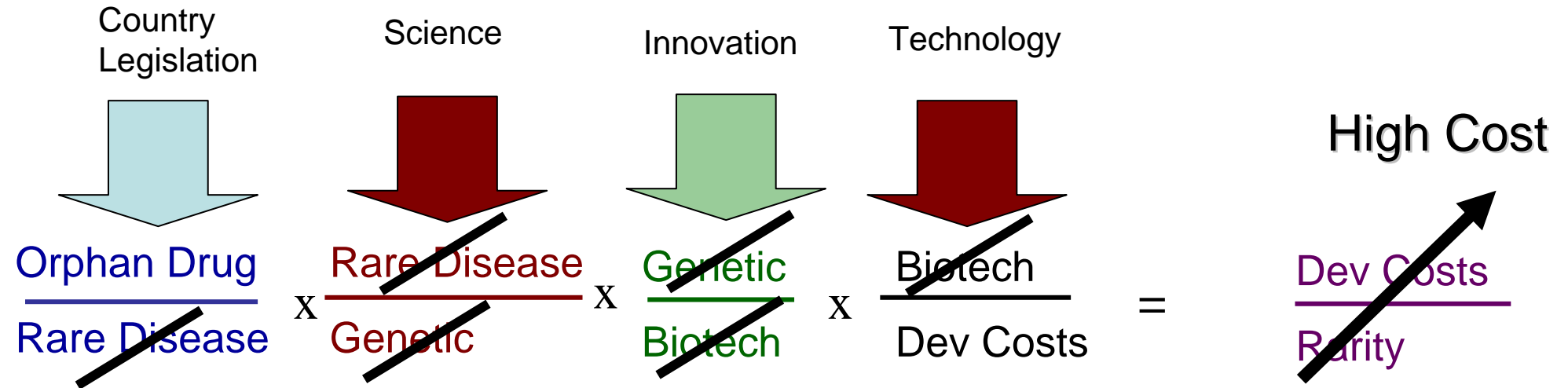
Orphan Drug = High Cost

Orphan Drug = Life Saving

Considerations for Tomorrow's Orphan Drug Policies (cont.)
#2) "First Encounter" for Many Countries
-[Research], Registration, Reimbursement

Partial

Formal

- Healthcare Priority Setting

- European Commission Public Health Program
  - 2003/2008 v 2008/2013

- WHO "Essential" Medicines List

- Linkage with Neglected Diseases Initiatives

- Local Manufacture of Orphan Drugs

Considerations for Tomorrow's Orphan Drug Policies (cont.)
#4) Role of International Collaboration

- **Global Rare Disease Community**
  - Multi-stakeholder

- **Common Designation Application Pathway**

- **Common Language**
  - WHO ICD Initiatives

- **Common Purpose**

- **Sharing of Best Practice**

Considerations for Tomorrow's Orphan Drug Policies (cont.)
#5) Orphan Drug Designation in the Access Equation (Part II)
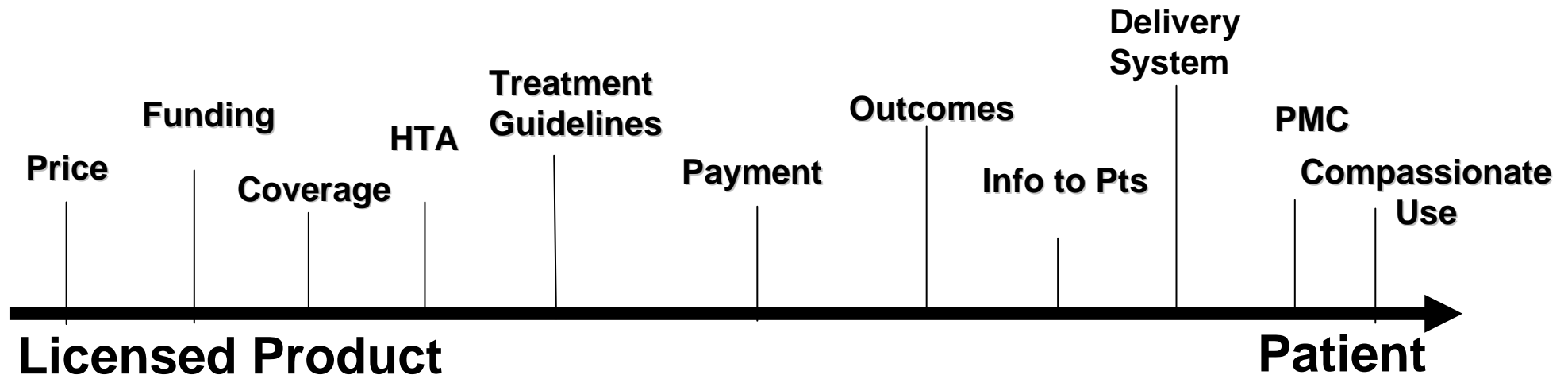
- How could Orphan Drug Status apply in this policy environment?
  - Short term: "Chance for Life"
  - Long term: Linking innovation to access / Sustainability

Summary

- Orphan Drug Policies have made a significant impact in the lives of patients with rare diseases
- Biotechnology has played an important role
- Access equation is only partially addressed
- Tomorrow's Orphan Drug Policies should
    - Keep rare disease patients as the primary focus
    - Apply OD status in entire access equation
    - Be interconnected with global public health priorities
    - Leverage 25 years of policy-making experience
    - Preserve and value innovation
    - Encourage international collaboration

Thank You