

อุดมศึกษาไทยจะไปทางไหนดี ?



โครงการประชุมวิชาการ
ที่ประชุมปณต. คณะสภากาชาดไทยและอภคค
มหาวิทยาลัยแห่งประเทศไทย
25 มีนาคม 2548

สถาบันอุดมศึกษาไทยกับการเปลี่ยนแปลง

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สภาอุตสาหกรรมแห่งประเทศไทย

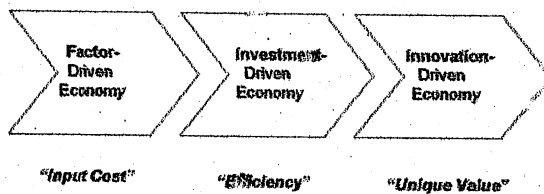
Changes : External Factors

- Globalisation
- WTO/FTA
- KBS/KBE
- Individualistic
- Terrorism
- Dynamism
- Competitiveness
- Life Long Learning
- Mass Customisation
- Human Security

Opportunities & Threats

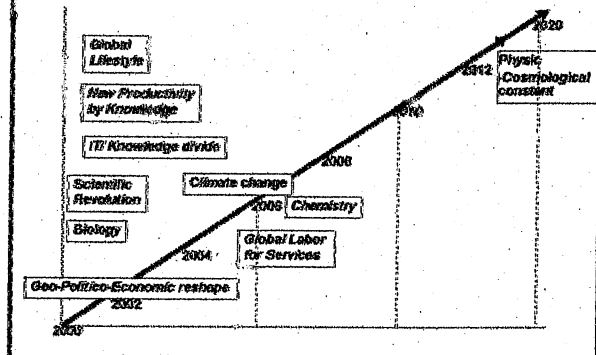
- Opportunities
 - New Products
 - New Customers
 - Greater Participation
 - Greater Autonomy
 - More Researches
- Threats
 - New
 - New Competitors
 - Greater Complexity
 - Greater Accountability
 - More Risks

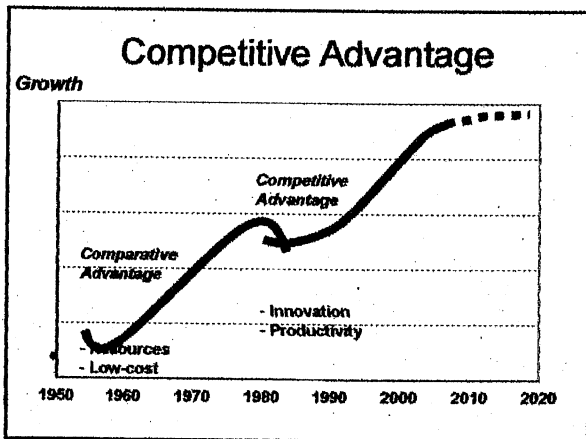
Stages of Competitive Development



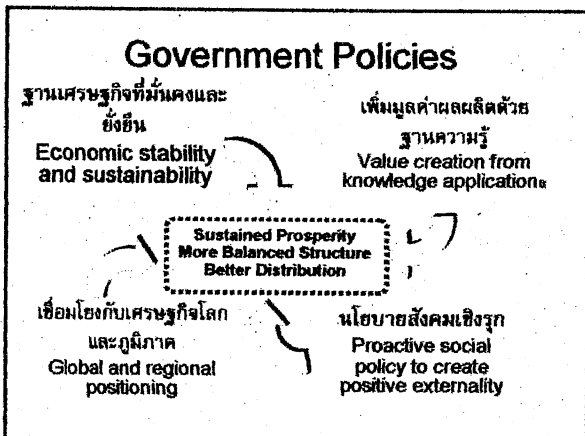
Source: The Competitive Advantage of Nations

The 3rd Shift





- ### Forward Looking Universities
- Focus : Demand Driven, Innovation
 - Direction : Think Global - Act Local
 - Positioning : Teaching vs Research
 - Road Map : Goals, Milestones
 - Management : Relevant, Effective, Efficient
 - Team : Recruit, Retain, Reward

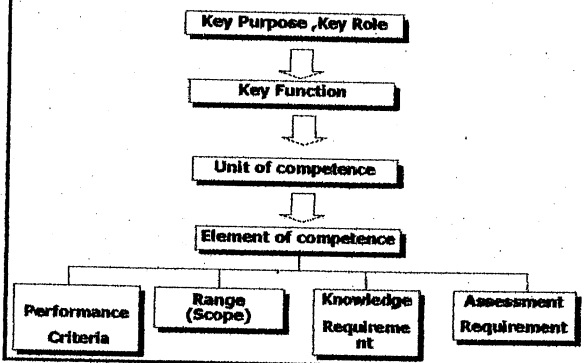


- ### Internal Factors
- Strategic Positioning
 - Strength & Weaknesses
 - Awareness to Changes
 - Adaptation
 - Standards & QA
 - Continuous Improvement
 - Facilities
 - Curricula
 - Personnel

- ### New Directions
- Graduates – Competencies
 - Full Time – New Entries
 - Part Time – Workforce
 - Curricula – Demand Driven, Multi-Disciplinary, Flexibility, Mutual ly Recognized
 - Theories – Knowledge
 - Practices – Skills
 - Activities – Attitudes

- ### New Directions (Cont.)
- Teaching vs Learning Processes – Diversity
 - Student Centered ????
 - Learning by Doing
 - Multi-disciplinary, Multi –Skills
 - Co-Operative Learning
 - Management Autonomy – Empowerment
 - Cooperate with Industries – Partnership

Competencies



Engineer –ABET 2000

- Ability to apply Knowledge of Mathematics, Science and Engineering
- Ability to design and conduct experiments, as well as analyze and interpret data
- Ability to design a system, component, or process to meet desired needs

Engineer –ABET 2000(Cont.)

- Ability to function on multi-disciplinary teams
- Ability to identify, formulate and solve engineering problems
- Understanding of professional and ethical responsibility
- Ability to communicate effectively
- Broad education necessary to understand the impact of engineering solutions in a global societal context

Engineer –ABET 2000(Cont.)

- Recognition of the needs for, and an ability to engage in life long learning
- Knowledge of contemporary issues
- Ability to use the techniques, skills and modern engineering tools, necessary engineering practices.

Key Concepts

- Effective – Efficient
- Creative - Innovative
- Risk - Return
- Analysis - Synthesis
- Speed - Accuracy
- Competition - Collaboration
- Think Global - Act Local
- Cross Cultural - Cross Functional

Paradigm Shift

- Source of Strength : Stability vs Change
- Quality : Standards vs Best
- Expectation : Security vs Personal Growth
- Resources : Capital vs Knowledge
- Structure : Self sufficiency vs Interdependence
- Motivation : To Complete vs To Build

New Tools/Technologies

- VQ
- BSC
- IMC
- CRM
- Supply Chain Mgt.
- Logistics
- E Learning
- E Commerce
- GIS
- Biotech
- Nanotech
- Robotic

What shall we do ?

- Make Things Happen ?
- Watch Things Happen ?
- Ask What Happen ?

"It is not the strongest of the species
that survives,
nor the most intelligent;
it is the one that is
most adaptable to change."

Charles Robert Darwin (1809-82)