

# The Interaction of Schools and Universities

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# A Changing Context

- Victory over illiteracy
- Democratization of all levels of Education
- Market economies
- Globalization
- Technological innovation
- Changing public / private roles
- Changing Societal Needs

# Longstanding Problems

- Funding
- Quality
- Student conditions and preparedness
- Curriculum
- Teaching methods
- Capacity to adapt to times
- Vision

## A revolution is needed....

- To add new depth and rigor to the curriculum and standardized exams
- To redeploy the money spent on education
- To reshape the teaching force
- To reorganize the governance and administration of schools

# Current Situation

Schools and higher education institutions,

- Isolated from and ignorant of each other
- Realizing how important they are to one another
- Have begun to rediscover one another
- Reassessed how well our two educational systems are performing

# Mutualism

- Universities are the main consumers of the products of schools,
  - Universities need strong and successful schools in order to do a better job of educating their students
- The effective training of teachers by the universities determines the quality of teaching in the schools.

## Some Issues...

- Questions about the quality of education in the schools as well as the universities
- The importance of school/college collaboration critical to the achievement of quality at both levels
- All of us, whatever our roles in education, have a stake in quality at all levels of our two systems

# Some Postulates

- Formal education is a continuum and not three segments of elementary-secondary-higher education.
- Yet there seems to be a mysterious barrier that separates grades K-12 from higher education
- Attitudes toward school are basically formed in the elementary schools.
- Students who want to study in college the sciences or other technical fields, need a strong mathematics and science background in high school



# The Relationship between the School and the University

- The upward flow of students connecting the school and the university
- A process of student selection and training.
- Increasing accessibility of the secondary school system pressuring the higher education to expand and diversify
- The downward flow of teachers, with their selection and training

# How the School Shapes the University

- Principally by shaping the upward flow of students
- The main instruments of influence are curricular tracks and exit examinations

# How the University Shapes the School

- Influence on the stream of teachers and administrators who pass through it on their way to staffing the schools
- The requirements it sets for student entry and successful performance

# The Emergence of Mediating Institutions

- ÖSYM
- Teachers' Unions
- NGO's

# Types of School and University Interactions

- Collaboration
- Consortia
- Partnerships
- Ministry Initiated programs
- University initiated programs
- Others

# Bilkent Model of Interaction

Arose from a need

- To bring what we teach and how we teach into the 21st century
- To impart 21<sup>st</sup> century skills to the students

# Bilkent University Model

- Teacher Preparation Module
- School Development Module
  - Financial Aspects
  - International Curricula
  - International Benchmarks
- Teacher Retooling Module
- Faculty Preparation Module

# Some Issues of Teacher Education

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- Enable teachers to educate the students for the 21<sup>st</sup> century
- Provide social leadership



# 21st Century Skills

- Knowing more about the world.
- Thinking creatively.
- Becoming smarter about new sources of information
- Developing good people skills - incl teamwork

# The Assembly Line

- Graduate Schools of Education
  - Ankara
  - Erzurum
- 3 Laboratory Schools
  - Ankara
  - Erbil
  - Erzurum

# IB Schools for Anatolia by Bilkent University

- A bill was passed in the Turkish Parliament on July 12, 2006 as the Law # 5526
- Mandate to Bilkent University to establish campuses in four Anatolian provinces of Erzurum, Malatya, Urfa and Van
- Campuses would include high quality k-12 schools and graduate schools to train their teachers

# The Rationale

- Attracting highly-qualified professionals to lesser developed parts of Turkey and keeping them there for a significant period of time
- To establish world-class elementary and secondary schools that will give very high quality education
- To transform a number of pilot cities into centers of attraction to work and reside in for families which consider giving their children their highest priority

# How will the schools be?

- Equipping these schools with state-of-the-art facilities and infrastructure to give to students broad background in art, music, athletics, sciences as well as social and environmental areas and impart them competency in the areas they are naturally gifted
- The schools will offer curricula that will be accredited by globally recognized agencies
- Along with these schools, institutions of higher education will also be established to give initially graduate degrees to teachers

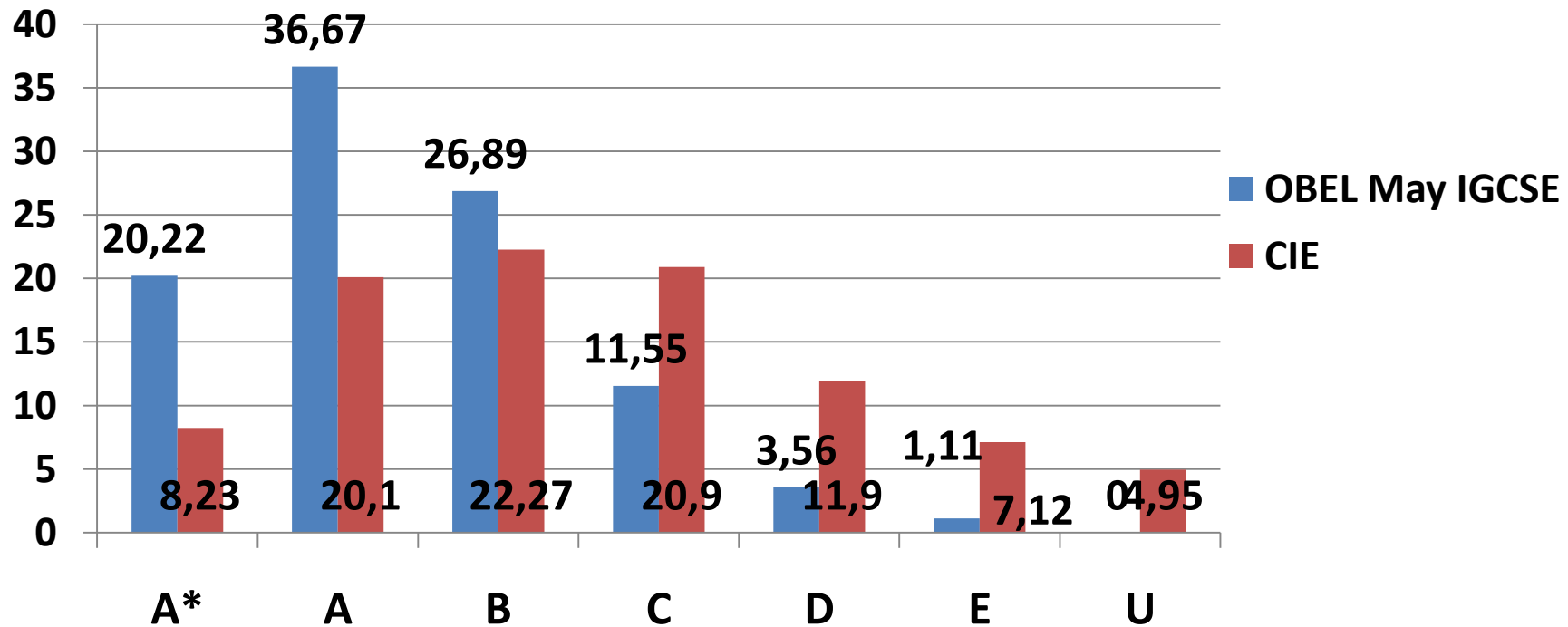
# The Erzurum Experience

- Established in 2007 as a Senior High School
- A Rigorous Preparatory Year Curriculum
- A 2-Year IGCSE Curriculum - followed by a month-long exams period- 15 exams
- A Two-Year IB Curriculum
- Bilkent Programs in Science , Arts and Music
- International Experience for Students

# Teachers, Parents and Students

- Teachers
  - From Bilkent and other top U's
  - Advanced Degrees and International Experience
- Students
  - Selected by a rigorous 2 stage exams
  - Top 2% of the cohort
- Parents

# IGCSE Results- 2010





# Future Leaders with the Present Leaders

