# كلية المدربين التقنيين

#### **Technical Trainers College**

# **Change in Saudi Arabia's TVET System**

#### **The Technical Trainers College (TTC):** A center of change

A Institution for



A Project of



**Dr. Michael Klees, Dean** November 20th, 2013

Speech at

غرفة التجارة والصناعة العربية الألمانية Ghorfa Arab-German Chamber of Commerce and Industry e.V.





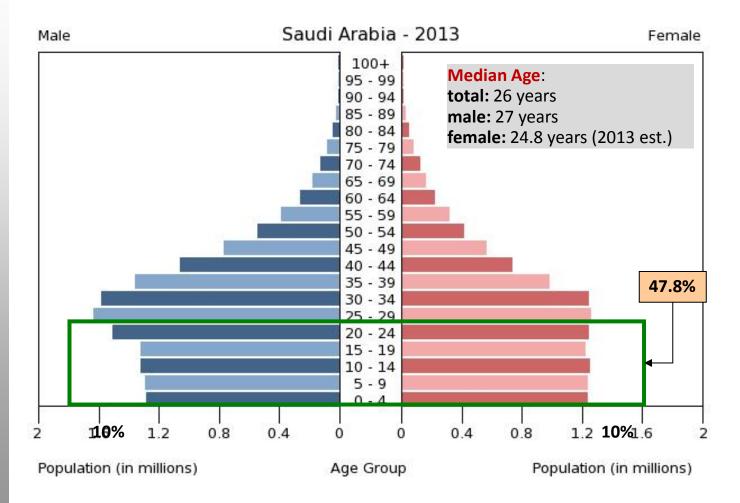
#### Content

- Saudi Arabia's Vocational Training System Basics
- Changes in the System
- •TTC's Hub Role

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#### Saudi Arabia age pyramid



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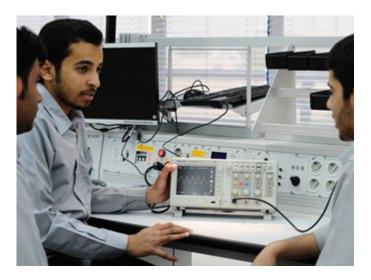
Source: CIA Wolrd Factbook



#### **KSA TVET Key Parameters**

- Unemployment rate in the group of 15-24 old people – total: 28.2% (2008)
  - male: 23.6%
  - **female:** 45.8%

44% of all unemployed people in KSA



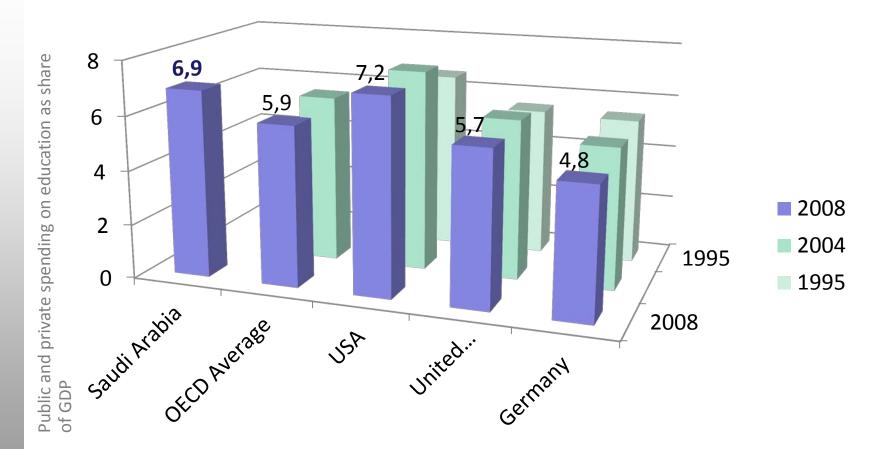
Number of TVET Students (2007)

- 33 Technical Colleges 39.500 trainees
- 33 Vocational Training Institutes 13.100 trainees
- 47 Vocationl Training Centers 13.900 scholars
- 70.800 scholars in the private sector
- In total: 66.500 young people or 1.1% of the group 15-24
  Germany (2012): 29.4% of the group 15-24

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#### Saudi Arabia: Basic Information



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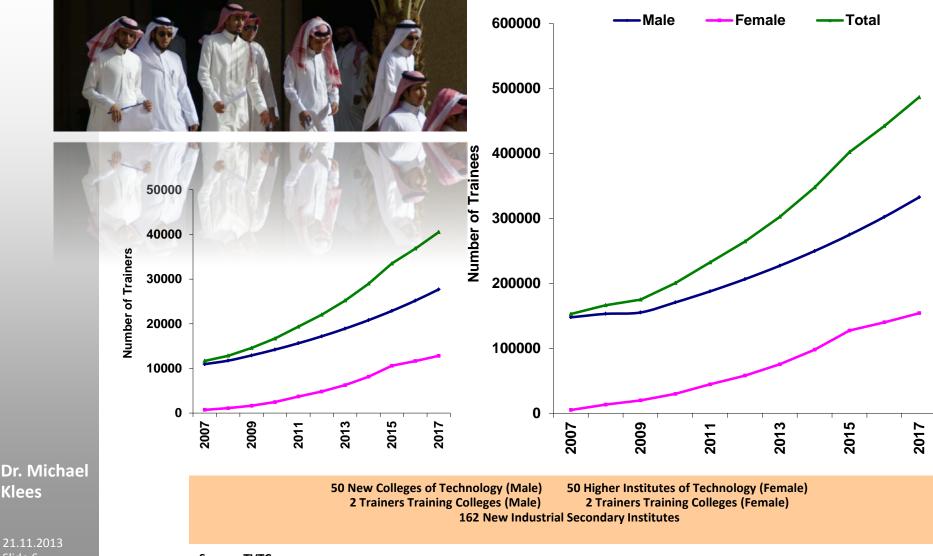
#### KSA spends more on education than the OECD

Source: World Bank / TVTC



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#### ...and where the investment goes....TVET



Source: TVTC



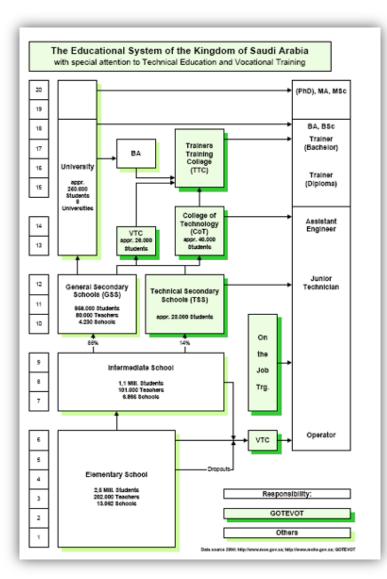
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## **Education System in Saudi Arabia**



- Public Education is open for every Saudi National (man & woman) from primary schools to higher education
- Education system in Saudi Arabia is primarily under the jurisdiction of the Ministry of Education, the Ministry of Higher Education and Technical & Vocational Training Cooperation under the power of Ministry of Labor – with King Saud University KSA founded the first university of the Arabian Peninsula
- 2007: 1,013,074 students (541,849 male and 471,225 female) with 87,823 teachers (41,108 male and 46,715 female)



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#### Vocational Training in Saudi Arabia – until 2009



Train new employees for industry

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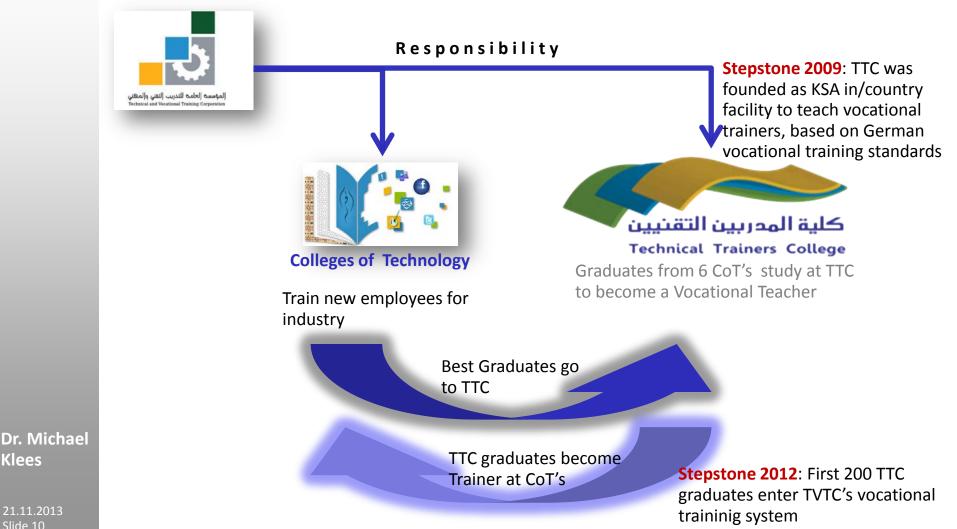
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Trainers came from outside KSA or with an non pedagogic background – Trained by Training



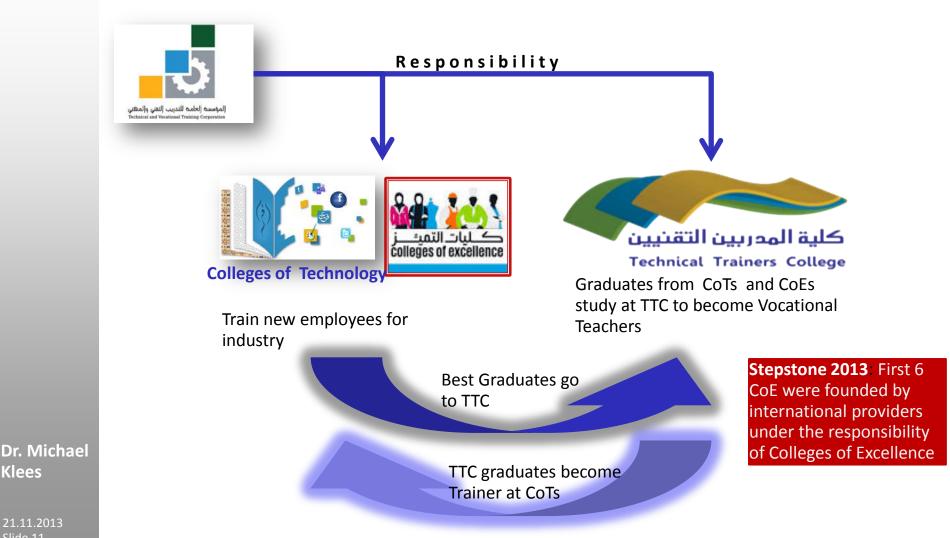
#### Vocational Training in Saudi Arabia – 2009-2013



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#### **Vocational Training in Saudi Arabia - 2013**



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## Content

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## TTC is the only teacher training facility

- Only **TTC** offers training for future vocational teachers in the Kingdom of Saudi Arabia.
- **TTC** forms the model of vocational training in Saudi Arabia with a dual-approach combination of theory and practice
- TTC has the institutional experience for training in KSA and develops its curriculum continuously



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#### What makes us unique:

- One-phase training which integrates Vocational Pedagogy with technical instruction
- Dynamic and diverse faculty, pedagogical experts as well as technical experts, ~ 25 Ph.D.
- Action-oriented teaching-learning methods
- One-shot educational experience, forming Knowledge, Skills and Attitude (Herz, Hirn und Hand")
- Integrated out-of-class experience :



40 % of Practical Training	60 % Theoretical Training	
Company Field Practice, Teaching	Courses in the Vocational	Courses in Vocational
Experience, Practical Courses	Disciplines	Pedagogy

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## **CAT Yanbu – TTC's in-house Training Facility**

- College of Applied Technology in Yanbu was founded in 2012 to train the best TTC's graduates in practical on-the-job teaching
- CAT Yanbu was designed as training facility closely attached to TTC to improve the teaching skills of Junior Trainers, graduates ofTTC



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### TTC in the wider KSA TVET System

- Establishment of additional courses according to CoE's development program
  Next stepstone: February 2014 Automotive Engineering
- Build up of shared understanding between CoE's and CoT's Deans with TTC about curricular development

- Establishing evaluation program for TVET teachers in Saudi Arabia?
- Intercultural training for incoming international COE providers?
- Women's department at TTC?
- Initiation of a post-graduate degree for future school managers in *Educational* (School) Management?

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# لنگر Thank you! Visit us at <u>www.ttcollege.edu.sa</u> or on our Campus in Riyadh



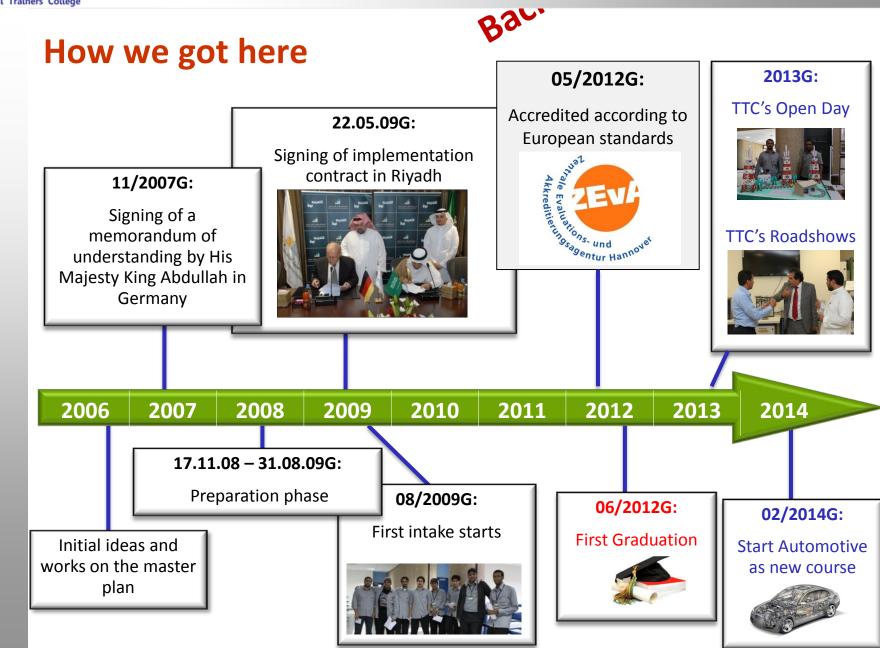
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# کلیة المد ers College The German model: Theory and Practice

Practical insights and profound understanding of the conditions in today's globalized world of work

 $\rightarrow$  Knowledge, Skills and Attitudes (K.S.A.)

 $\rightarrow$  "Out of college learning opportunities"

Two periods of six weeks in Company Field Practice (CFP-1, CFP-2) during the summer break

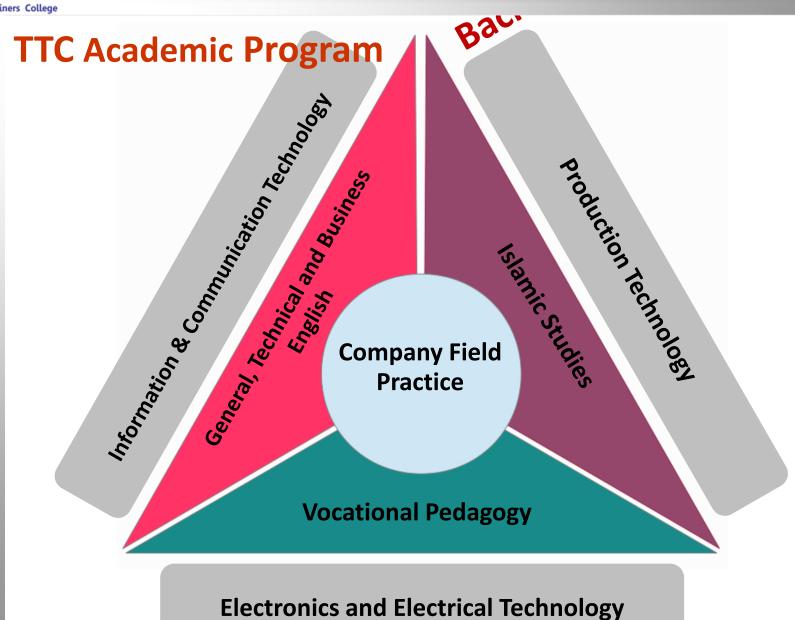
Summer 2011: Summer 2012:

420 trainees in CFP 642 trainees in CFP

Cooperative approach to build sustainable partnerships with companies all over the Kingdom of Saudi Arabia, including:







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# **TTC programs**

#### a. Mechanical Engineering

- Production Technology
- Refrigeration and Air Conditioning
- Automotive (Start: Fall 2013)

#### b. Electronics and Electrical Engineering

- Electrical Machines
- Electrical Power
- Electronics

#### c. Information and Communication Technology

- Telecommunication
- Application Development
- Network and System Administration

#### d. Islamic Studies

- e. Vocational Pedagogy
- f. English Language Training



Back up



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# Our Degree and our Graduate

- TTC offers a Bachelor of Engineering Technology (BET)
  - Combination of technical and vocational education
  - 240 Credit Points
  - 6 (8) semesters
  - English as main language of instruction

- Trainers at Colleges of Technology (CoT)
  - Existing CoTs
  - Foster Colleges
  - Colleges under foreign management



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- Action-oriented teaching-learning methods
- One-shot educational experience, forming Knowledge, Skills and Attitude (Herz, Hirn und Hand")
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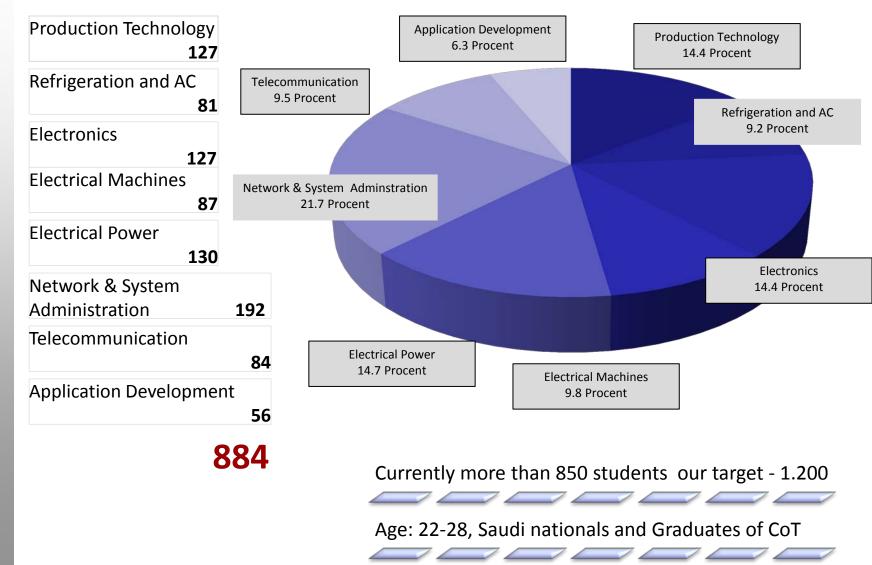
Back up

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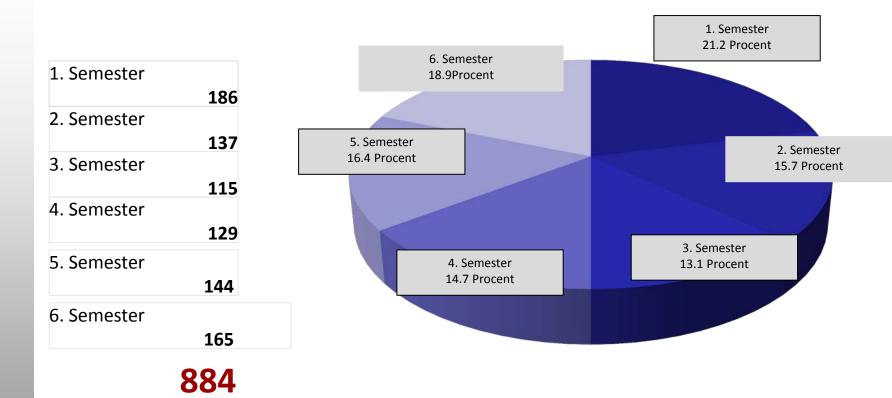
Student distribution according to disciplines



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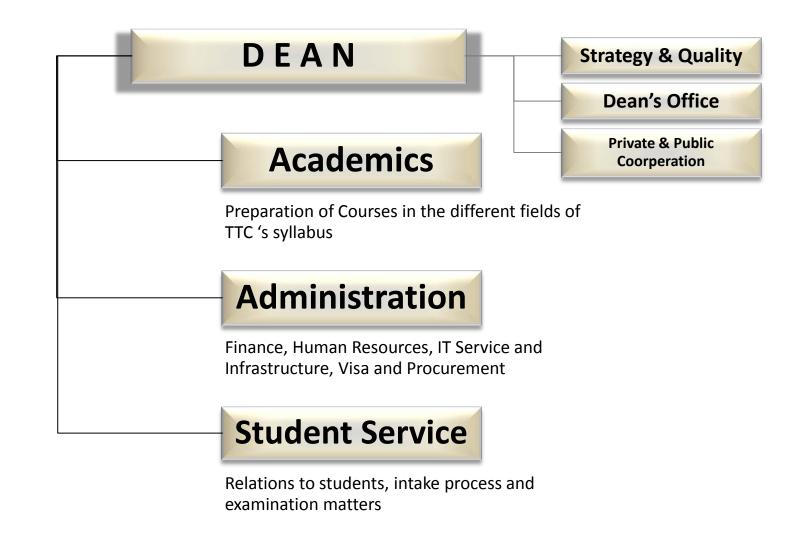
#### كلية المد rs College Student distribution according to semesters



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#### **TTC Organization**



Backup

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Positioning of TTC within Back up

- TTC operates on an <u>annual</u> budget of currently SAR 90.000.000 corresponding to close to 20 Million € pa.
- TTC generates the single largest overhead for GIZ IS of any project with strict ZAS planning, monitoring and expenditure control.
- TTC is one of the few successful German international university projects. It is a project but also an institution.
  - TTC is a growth venture, with replicable potential.

 GIZ IS employs at TTC currently 80 dispatched staff ("Entsandte Mitarbeiter")

Enormous, successfully mastered recruitment archievement

- Not all professional staff are "Entsandte Mitarbeiter", but counting all contract types, TTC employs 140 rofessionals.
- 23 faculty, staff and leadership personnel count with a Ph.D.
- There are in total 138 occupied positions.

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