



Kwame Nkrumah University of Science and Technology, Kumasi
College of Engineering

The

TRANSPORTATION RESEARCH CENTRE KUMASI (TReCK)

A Regional Center of Excellence in Transportation and Mobility education and Research

Ghana Infrastructure Conference (GIC -1), Holiday Inn hotel, Accra, August 6-8,2018

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Main Modes and Focal Areas



Vision and Mission

Vision

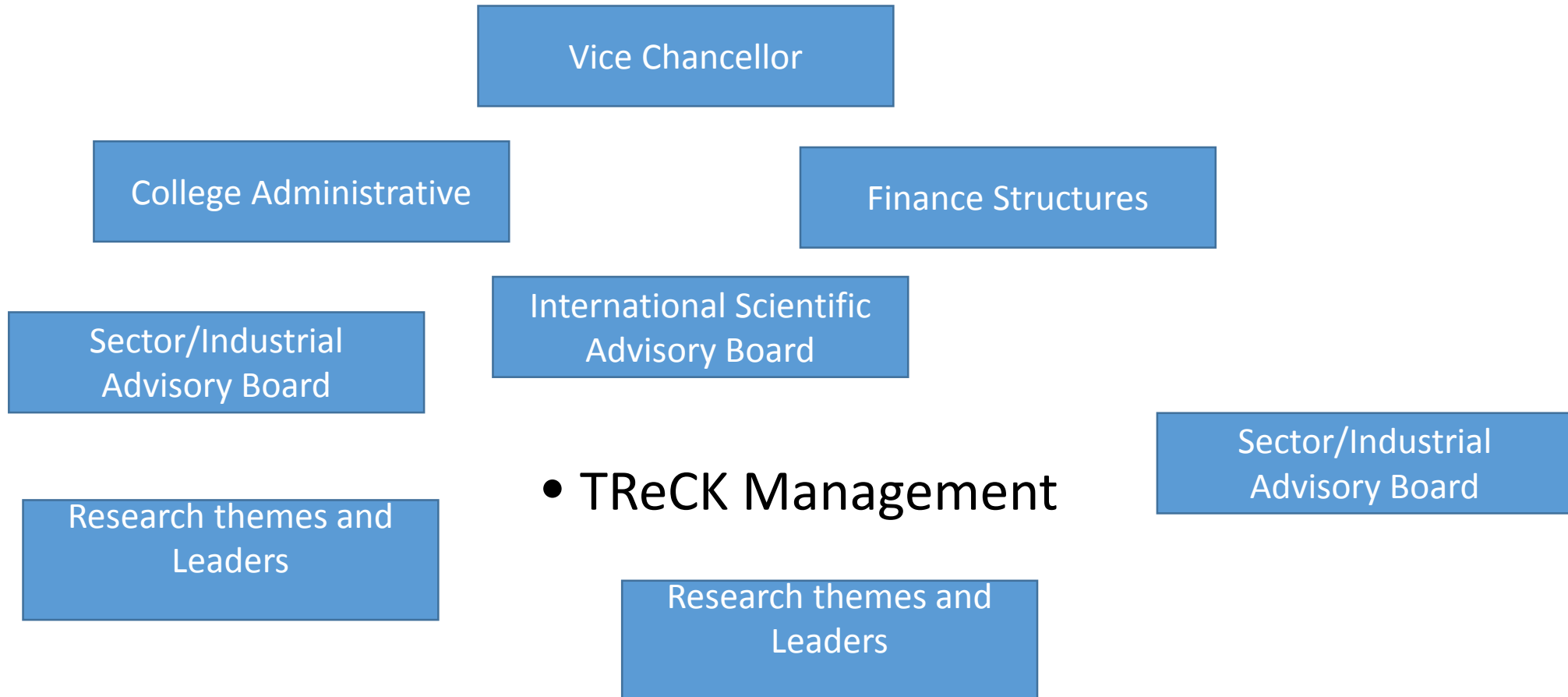
- The Transportation Research Centre Kumasi strives to become a highly-rated Regional Centre in Transportation and mobility education and research in Ghana and West Africa

Mission(s)

The Transportation Research Centre Kumasi is committed to improve our transportation system by:

- conducting interdisciplinary research to develop, support and complement the relevant national and regional transportation plans and strategic policy directions
- collaborating with fellow national and international researchers and institutions for knowledge sharing and advancement
- acting as safety, security and environmental safeguard resource and training center in transportation
- acting as a coordination center for the integration and growth of all modes
- establish data repository and support national and regional policies with data led strategies
- train high caliber professionals and academics with world class expertise to transform the systems in Ghana and Africa.

Governance



Strategies

- TReCK will contribute to the growth of transportation related research activities at the university and to support transport sector policy and strategy development through applied research-generated evidence, data and recommendations.
- The role of the TReCK is to carry out interdisciplinary research in the field of transportation and complement the National, Regional, Metropolitan/Municipal and District level transportation and mobility plans and strategic directions.
- Develop annual systematic data collection, storage and retrieval system for all modes and Data repository/Transportation Statistics Ghana
- Contribute to the coordination of transportation sector policies and strategies from a multi modal and intermodal perspectives

Potential Academic and Industrial/sector Partners

- Georgia University of Technology, USA
- **Transportation Center (TRACE) –EPFL, Switzerland**
- **Center for Transport Studies, University of Cape town, South Africa**
- **University of Delaware Center for Transportation, USA**
- **Texas Transportation Institute at Texas A&M University, USA**
- Delft University of Technology, Delft, Netherlands
- **University of Applied Science, Fulda, Germany**
- Selected **Technical Universities in Ghana**
- Selected **Private Universities offering Civil engineering, Ghana**
- Building and Road Research Institute (BRRI)
- **University of Liberia**
- **University of Sierra Leone Foura Bay College, Sierra Leone**
- Federal University of Technology, Minna, Nigeria
- **Technical University of Munich, Germany**
- Ghana Association of Consultants
- Ghana Institution of Engineering
- West Africa Federation of Engineering Organizations
- Ghana Institute of Planners
- Ghana Institute of Architects
- Ministries, Departments and Agencies in Transport
- Metropolitan Municipal and District Assemblies
- Ghana Civil Aviation Authority
- Ghana Railway Development Authority
- Ghana Shippers Authority
- Ghana Ports and Harbours Authority
- ECOWAS Commission

Educational Programmes /Tech transfer

The staff of TReCK teach various modules and supervise student research projects and dissertations as part of the following undergraduate and postgraduate programmes.

- **PhD, MPhil, MSc Road and Transportation Engineering**
- **PhD, MPhil, MSc Transportation Planning**
- **MSc Air Transport and Aviation Management**
- MSc Rail Transport and Development *
- MSc Marine Transport /Coastal Engineering*
- MSc GIS for Infrastructure Management*
- MSc Air Transport Engineering and Management*

Educational Programmes/Tech transfer

TReCK also run short courses for professional engineers and practitioners in Transportation.

This enables TReCK to inject new knowledge and research into practice and sharpen the skills of practitioners.

The following short courses have been undertaken under the Tech Transfer unit in the last few years

- a) Traffic Analysis, Modelling and Simulation using PTV Vision VISSIM/VISTRO/VISPED
- b) Sustainable Roundabout Safety, Planning, Design and Modelling
- c) Road Safety and Traffic Management
- d) Urban Transport Systems Planning
- e) Road Maintenance Management Systems
- f) Highway Development Management (HDM IV)

Next steps

- Complete the TReCK proposals under the African center of Excellence Call
- Launch TReCK on 7th August 2018 GTPF-NA Ghana Infrastructure Conference 2018 at the Holiday Inn Hotel, Accra,
- Inaugurate International Advisory Board
- Sign MoU with main stakeholders/Agencies to collaborate for research and training
- Launch of Transportation Research and Innovation Fund (TRIF)
- Set up 5 year research agenda for all modes through stakeholder consultative process
- Admit more post graduate and research students
- Expand facilities and recruit staff to cover all modes
- Set up TReCK Integrated Transportation Strategy and Policy Unit with minimum dedicated staff

What stakeholders can do for/with TReCK

- Contribute to applied research agenda setting
- Contribute to the various Advisory boards
- Support Postgraduate training and short courses through Participations
- Patronize the professional services of TReCK in projects to ensure sustainability
- Support with funding by contributing funds into the TRIF
- Provide scholarships for post graduate students
- Set up Professorial chairs in Transportations for various modes with the objective to support capacity development in Ghana and west Africa

Upcoming Events From August 2018

Programme

*1st Ghana Infrastructure Conference
(GIC-1 2018)*

GhIE Engineers Centre, Roman Ridge, Accra, August 6-8, 2018

GTPF
Ghana Transportation Professionals Forum

GHANA INSTITUTE OF ENGINEERS

THE REPUBLIC OF GHANA
MINISTRY OF ROADS AND HIGHWAYS

Transportation Research Centre Kumasi (TReCK)
Department of Civil Engineering
KWAME NINSIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Official Launch of the Transportation Research Center Kumasi (TReCK)

Inauguration of the International Advisory Board

Setting up of the Sector Partners Advisory Board

Setting up of Academic and Educational partners Board

Transport Stakeholder engagement workshop

Review of the innovative new PhD courses and applied research areas

Review of MSc courses in Railway, Maritime and Aviation Transport

Thank you

.... *keep TReCKing*

Contact us

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