

## InCites bringing “Insights” into UP Research Output Case Study: CCNY Research Management Tool Project

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UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA  
Denkleiers • Leading Minds • Dikgopolo lsa Dithalefi

# Introduction

- UP 2025 Strategic Plan - core strategy - research intensive university
- UP Strategic Plan focuses on publishing in Web of Science journals
- UP emphasis on ability to monitor, measure and manage research output



# CONTENT

- Reasons for choosing InCites
- Changes since InCites' introduction
- New role profiles emerging within UP
- Examples of InCites reports used by UP
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# Reasons for choosing InCites

- Alignment with DHET Web of Science accredited journals
- Bibliometrics reports from a constant dataset: Web of Science
- Customized and benchmarking reports
- Complimentary tool
- Also selected by 10 other South African universities, DST and NRF



# Changes since InCites introduction

- UP management strategic planning
- BRICS country global comparisons
- InCites no longer an exclusive library tool
- Benchmarking
- University of Pretoria's Faculty of Veterinary Science – benchmark internationally
- National and international research output separated



# New role profiles emerging within UP

- Key role players:
  - Executive Office
  - Department of Research and Innovation Support (DRIS)
  - Bureau for Institutional Research and Planning (BIRAP)





# New role profiles emerging within UP (cont.)

- New role players emerging from InCites:
  - University of Pretoria Library Services
  - Faculty Deans and Deputy-Deans of Research and Postgraduate Support
  - Heads of Departments
  - UP researchers interested in the bibliometric studies



# Examples of InCites reports used by UP

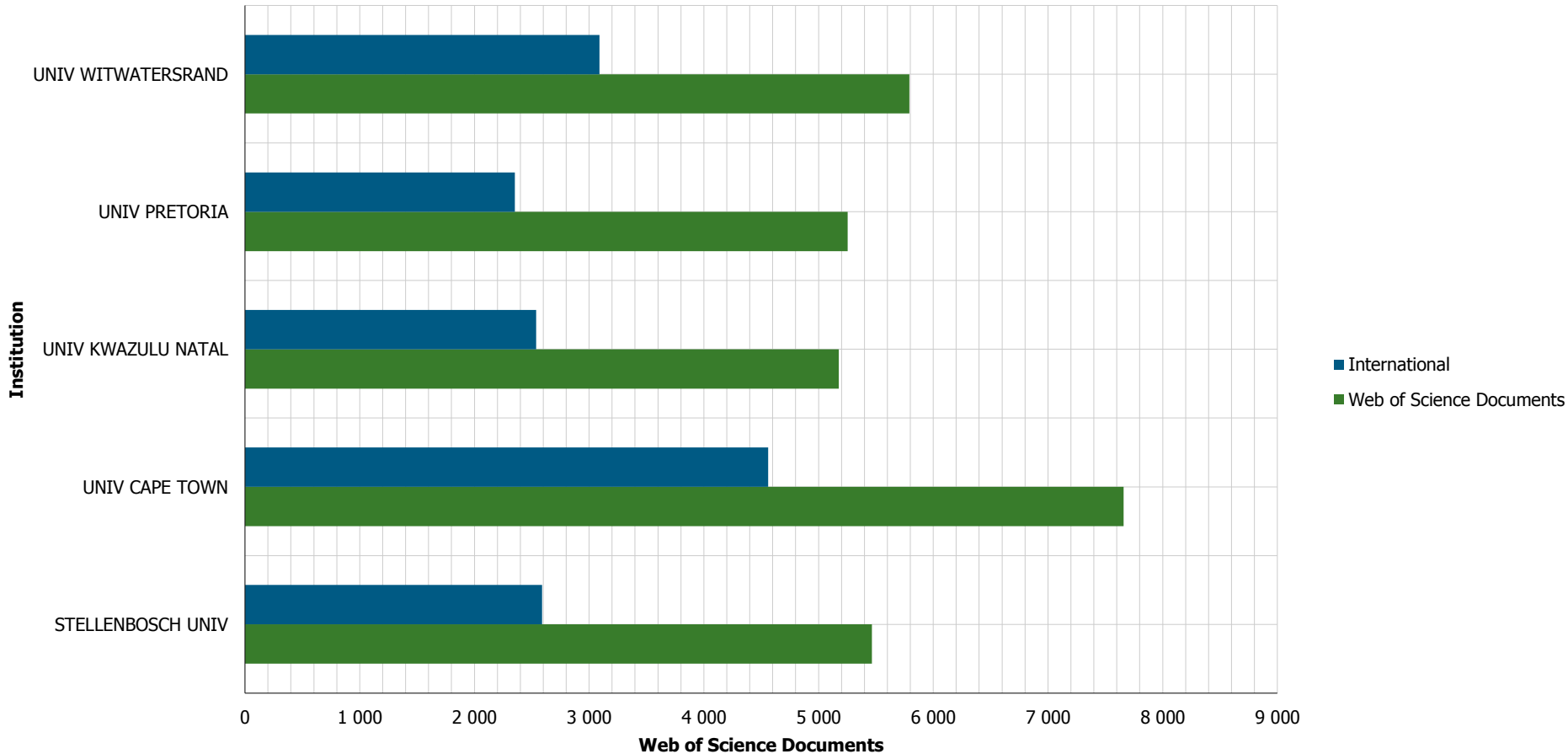
- The Senate and Council of UP
- BIRAP
- Dean: Faculty of Theology
- Deputy-Dean: Faculty of Natural And Agricultural Sciences
- Head of Department: Electrical, Electronic and Computer Engineering
- Researcher: Graduate School of Technology Management





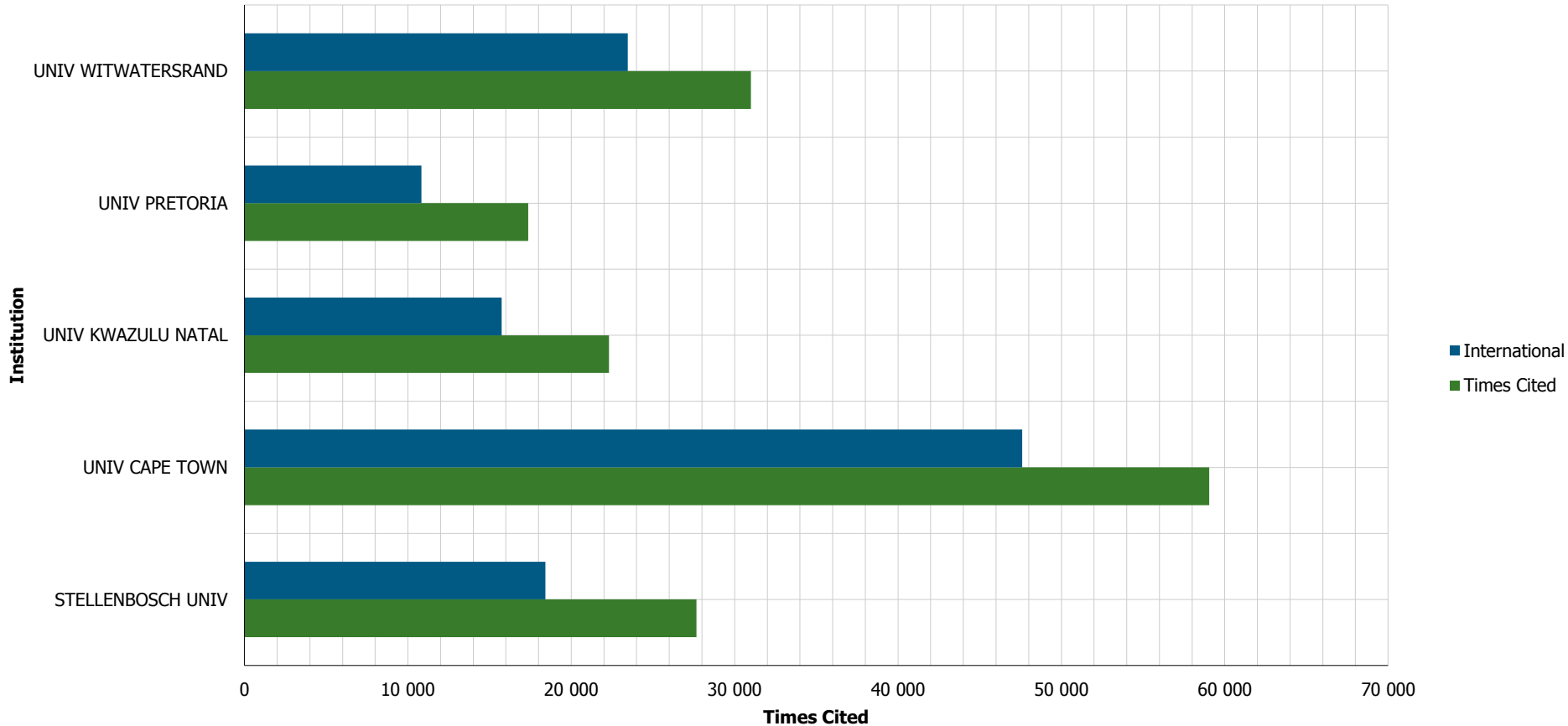
# InCites reports to Senate and Council of UP

## Web of Science *documents* 2008 – 2012 cumulative

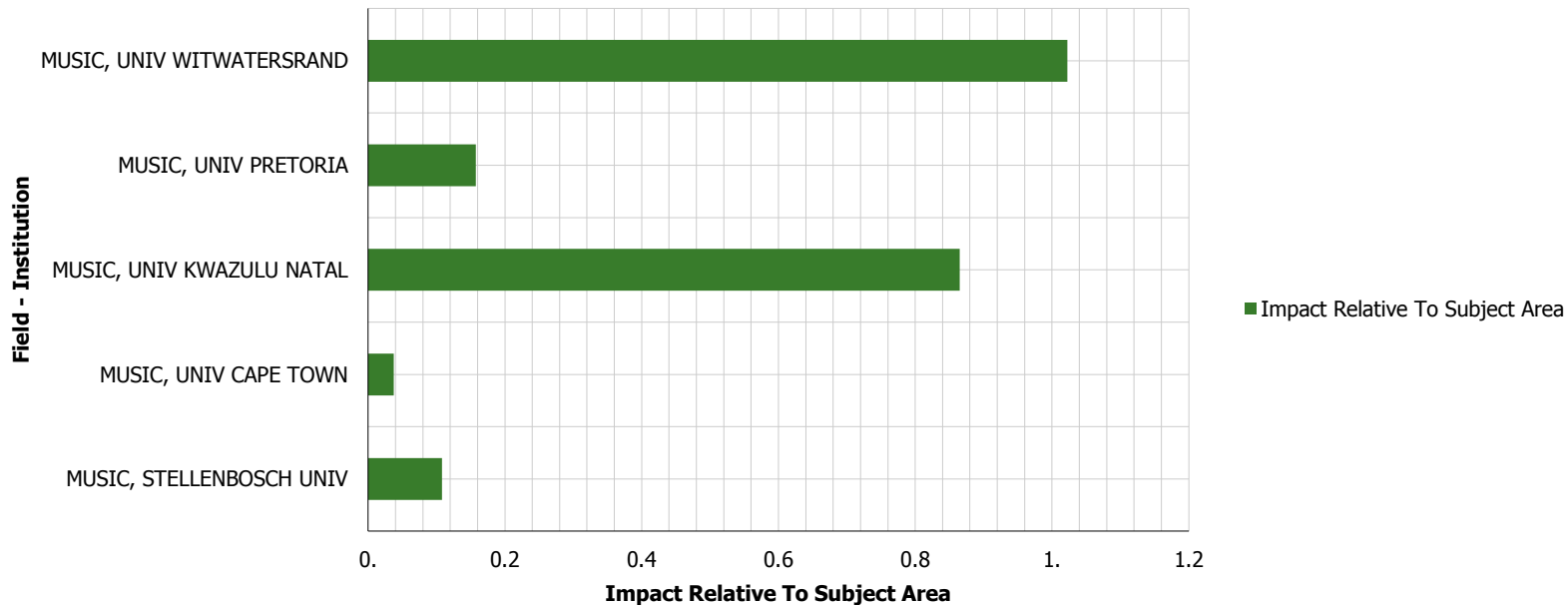
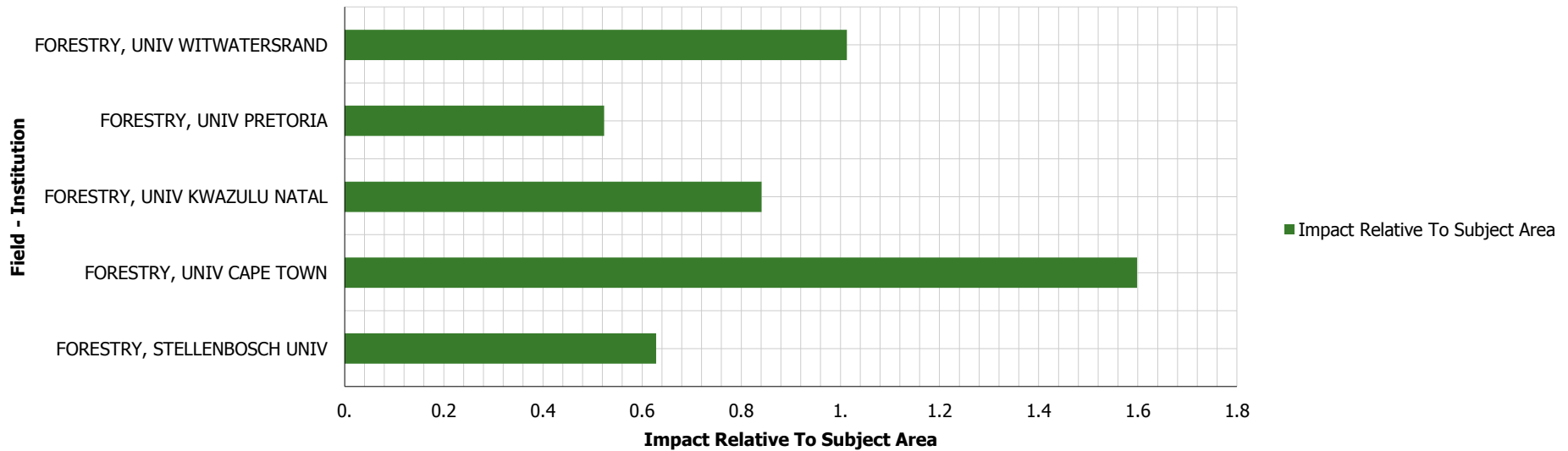


# InCites reports to Senate and Council of UP

## Web of Science *times cited* 2008 – 2012



# InCites, subject discipline impact



# Hugo Mouton: Head: BIRAP, UP

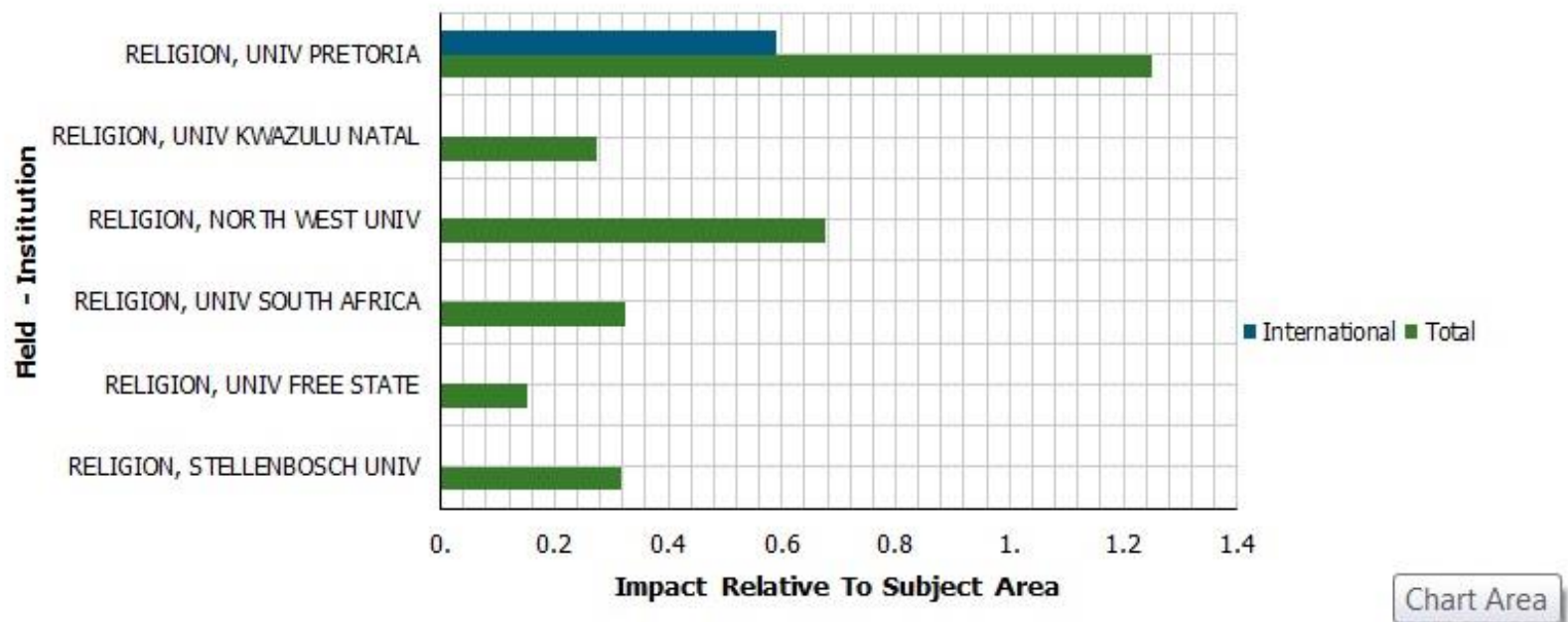
- InCites a cornerstone in reporting on progress against UP strategic plan
- Expansion of international collaboration initiatives
- Trend lines
- Discipline related management information



# InCites applied by Dean of Faculty of Theology in Faculty Plan

The international citations of national universities for the research field of religion provide the following graph:

Figure 3 Benchmarking: SA Faculties (Thomson Reuters)



The graph indicates that the Faculty makes a significant national and international impact with regard to research.

Another Incites graph of Thomson Reuters is an indication of the impact of research measures by ISI articles for the period between 2008 and 2011:

# Prof Brenda Wingfield, Deputy-Dean: Faculty of Natural And Agricultural Sciences

- Benchmark different disciplines against other SA Universities
- Current position and future potential
- Graphs provide immediate visual overview
- Departmental and discipline analyses
- Global overview for impact and output analysis





# Prof. Sunil Maharaj, Head of Department: Electrical, Electronic and Computer Engineering



# Passion for international competitiveness

## The University of Pretoria strives to be recognised for improving the quality of lives

**Sunil Maharaj**

**K**nowledge-based economies have a higher gross domestic product per capita. The World Bank 2012 knowledge economy index ranked South Africa 67th of the 146 countries evaluated.

The 2009/10 World Economic Forum global competitiveness report demonstrated the correlation between global competitiveness and the knowledge economy index, wherein South Africa was among the poorly ranked countries. As a nation we need to increase our

the low 2007 base of 1274).

This is a phenomenal challenge, because between the years 2000 and 2007 the Academy of Science of South Africa's 2012 consensus report indicates that our PhD graduates grew at an average rate of around 6% a year.

China's PhD production increased by approximately 817% from 2 556 graduates in 1991 to 23 446 graduates in 2004. If one normalises this in terms of population, all South African stakeholders need to be aggressive in addressing this challenge, which could be devastating for our future generations

research groups, actively recruit postgraduate students at master's and doctoral level and create a conducive environment to stimulate higher-level thinking.

This should foster cohesion between members in a racially and culturally diverse cohort, attract leading experts and continuously build partnerships with industry, government and professional bodies.

In the 2011 Thomson ISI Essential Science Indicators, UP's School of



Engineering was ranked in the top 1% in the world and as the leading engineering school in South Africa.

From the InCites ISI Web of Science (October 2011) Citation Report for electrical and electronic engineering, UP can be considered the leader in South Africa.

Our continuous focus to build partnerships with industry so that we can offer our industries, undergraduates, master's and doctoral graduates the best training and

expertise to contribute to their international competitiveness has resulted in various initiatives. Some of them are:

- The South African National Energy Development Institute Hub at UP
- The EXXARO chair in energy efficiency
- The chair in electronic defence research with the CSIR
- The CBI electric low voltage chair in power electronics
- The Agilent Technologies CAEC Laboratory, one of the largest of its kind in the world
- The ATNS-UP research partnership
- The Huawei Technologies LTE (4G) Laboratory
- The only indoor compact

to be part of their team and pursue postgraduate study so that we can collectively achieve the grand challenge of transforming South Africa into a vibrant and innovative knowledge-based economy.

**Professor Sunil Maharaj holds the Sentech chair in broadband wireless multimedia communications and is head of the department of electrical, electronic and computer engineering at the University of Pretoria**



# Prof David Walwyn, Graduate School of Technology Management

- UP Research Performance Profile dataset
- Author collaboration networks
- International benchmarking - background material for studies in science and innovation policy
- Global Innovation Index 2013





# 'Insights'

- InCites has no history of previous affiliations
- H-indexes
- Web of Science Categories not always normalised subject data
- Bibliometrics a specialised field of research performance measurement
- Interpretation



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- Felix Ubogu, University of the Witwatersrand Library
- Prof Stephanie Burton, UP Vice Principal, Research and Postgraduate Education, UP DRIS and BIRAP: partnership development with UPLS
- UP Faculties: partnership with UPLS

