



SAP RESEARCH

**SYSTEMATIC THOUGHT LEADERSHIP FOR INNOVATIVE BUSINESS**

# **SAP RESEARCH: Technology for Socio-Economic Development**

**- World Internet Center - December 2004**

Dr. Joachim Schaper, SAP Research VP Americas

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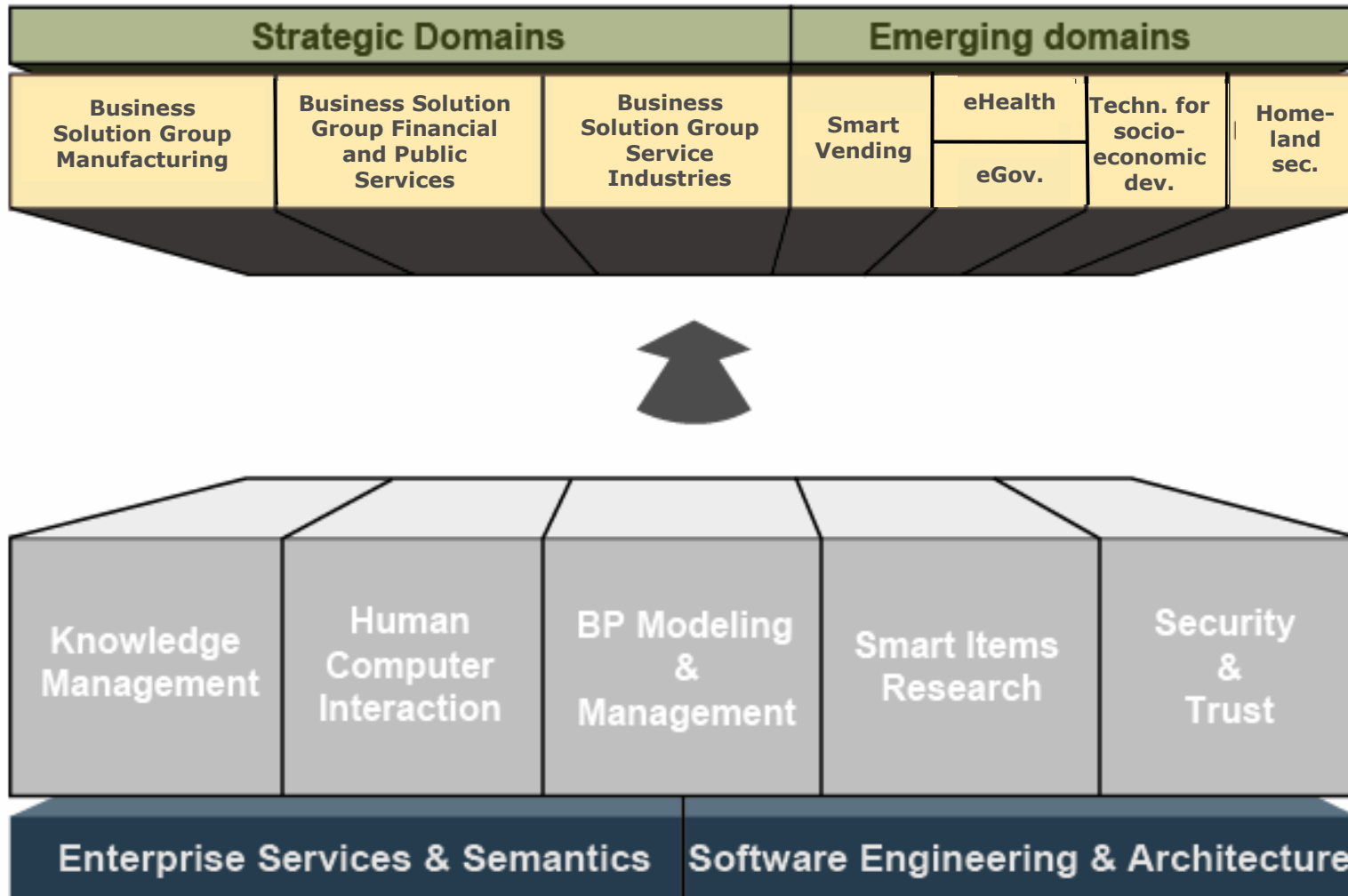
# SAP Research Centers/Groups – worldwide

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# SAP Research Programs & Domains

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**SAP and SAP Research**

**Technology for Socio-Economic Development**

**L3 - Lifelong Learning**

**Africa Drive Project**

**SAP – Social Engagement**

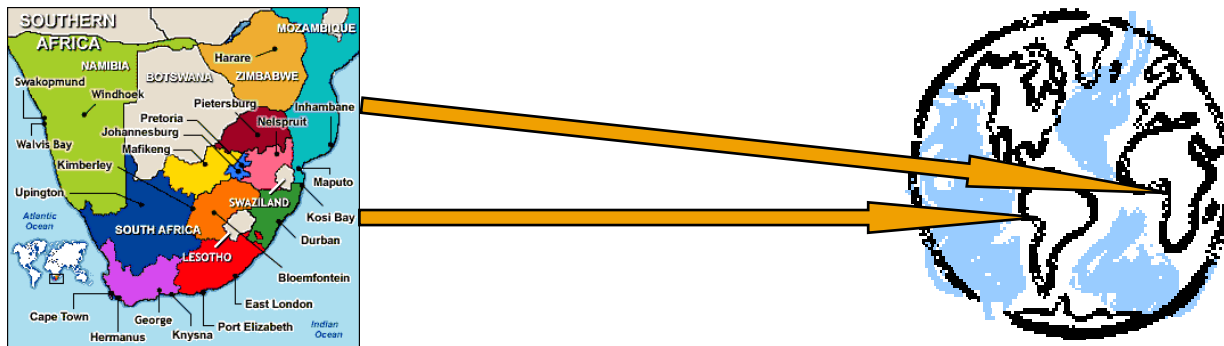
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# SAP Research Group Johannesburg

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SAP Research Group Johannesburg is the first SAP Research location in a developing country. The research experience gained is applicable and transferable to other developing countries, i. e. can be rolled out in Africa, South America and some Asian countries.



## Central question:

*How do we utilise Information and Communication Technologies (ICT) and SAP application software for development to make strategic areas such as education, health, government and banking services accessible and affordable to the population of developing countries?*

# Why technology for socio-economic development?

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1. SAP Research programs and emerging business domains address research topics identified as being relevant for South Africa
2. SAP Research and SAP Public Sector have more than three years of experience with local eLearning research and pilot projects in the South African teaching and learning environment
3. SAP engages in local and global initiatives dedicated to improving the social environment
4. SAP Research's collaboration model offers Ph.D. and internship programs
5. SAP Research plans to participate in national research initiatives to team up with local partners and government
6. SAP Research's experience in governmental funded joint research may attract further partners and sponsors
7. South Africa engagement will serve as best practice that can be transferred to other countries and regions within the new global SAP Research domain
8. Objective to bridge the **digital divide** and attract further engagement by other multinationals

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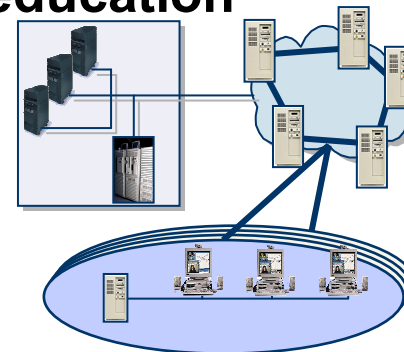
## Establish institutional network for vocational education

- Vocational education institutions
- Learners
- Content providers
- Infrastructure & technology providers
- Research: Didactic & Technology



## Establish technical network for vocational education

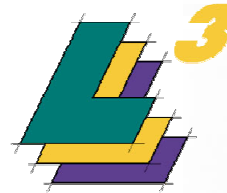
- Learning centers
- Service center
- Learners@Home



# L3 Evolution

Research in the areas of  
multimedia systems, Internet, didactics and new media

 German federal  
lighthouse project



**lebenslanges lernen**  
gefördert mit Mitteln des 

*supported by  
UNESCO and gtz*



DASSIE



Africa Drive

*supported  
by bmbf*

ALBA

*developed  
by SAP*

SAP Learning  
Solution

*supported by  
SAP*

University Research  
Program

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President Thabo Mbeki (2002)

**“Special attention will need to be given to the compelling evidence that the country has a critical shortage of mathematics, science and language teachers, and to the demands of the new information and communication technologies”**

**Serious shortage of suitably qualified school educators, particularly in the strategically important learning areas of the sciences, mathematics, technology and entrepreneurship**

**Resulting in major shortage of suitably qualified graduates with skills, knowledge and competencies to participate in the local and global economy**



**Focus on secondary (Gr 10 – 12) educator development**

**Develop innovative new learner-centred learning programmes and strategies**

**Utilise appropriate information and communication technologies, to ensure:**

- ▶ **Increased access**
- ▶ **Improved delivery**
- ▶ **Effective management of learning**



## ADP - Objectives

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**Develop and evaluate appropriate models for the provision of mathematics, physical science, technology (ICT), entrepreneurship, functional English and HIV/AIDS education and training to in-service educators in the North-West Province, South Africa and Africa**

- ▶ **Blended Learning Model**
- ▶ **Technology Model**
- ▶ **Cost Model**

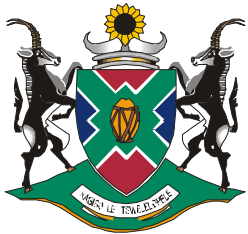
**Facilitate the introduction of ICT into the delivery of learning at schools**

**Inform Government Policies and Strategies on Educator Development (Provincially, Nationally, SADC, Africa)**



# ADP - Public Private Partners

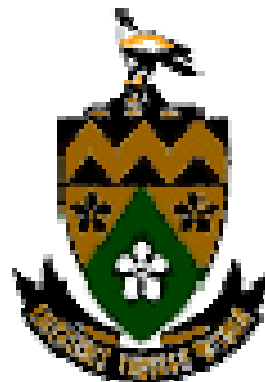
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NW Provincial Government  
(Department of Education  
and Finance)



## SIEMENS



NW University

**DUXBURY**  
Networking



# Learning Model Principles

- **Blended Learning** introducing new methodologies and technologies
- **Learning Centres** – daily point of entry to all training activities (scheduled and self paced)
- **Facilitation Process** – guidance, change management support, human factor of blended e-Learning
  - ▶ Level 1: Facilitated face-to-face sessions by a trained facilitator
  - ▶ Level 2: On-line facilitation by SME and senior facilitator
  - ▶ Level 3: On-line facilitation by SME/Author
- **Outcomes Based Education** – what has been learned matters not how it has been learned

7 Learning Centra in North West Province

30 students per Learning Centre

One Face to Face Facilitator per Learning Centre

One Technical Support Person per Learning Centre

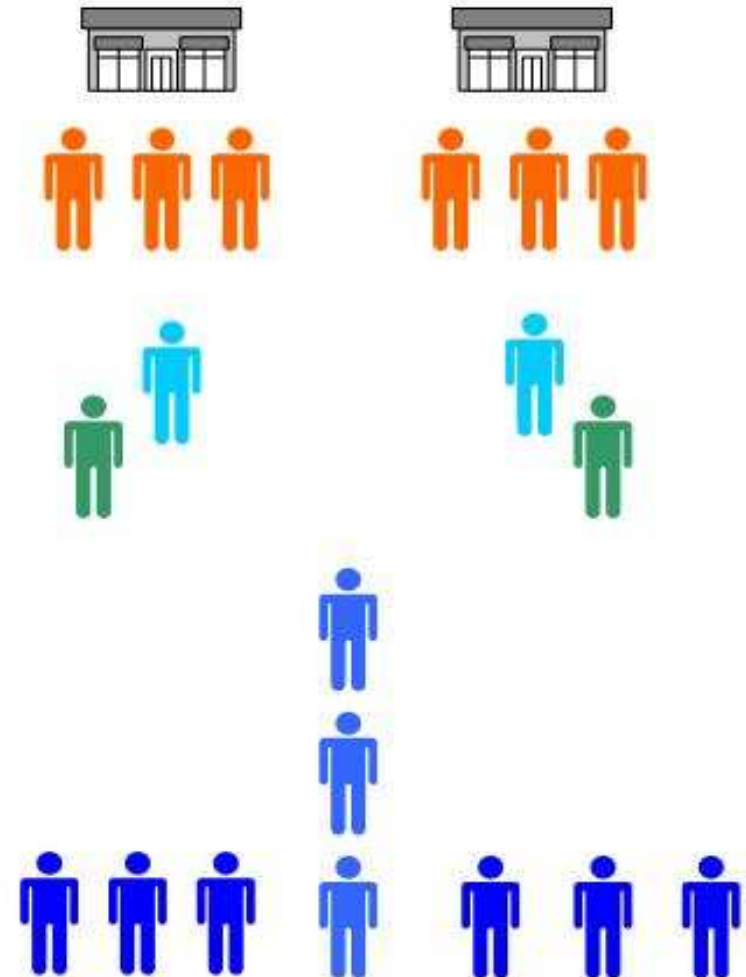
One Senior Online Facilitator

Facilitator Training Team

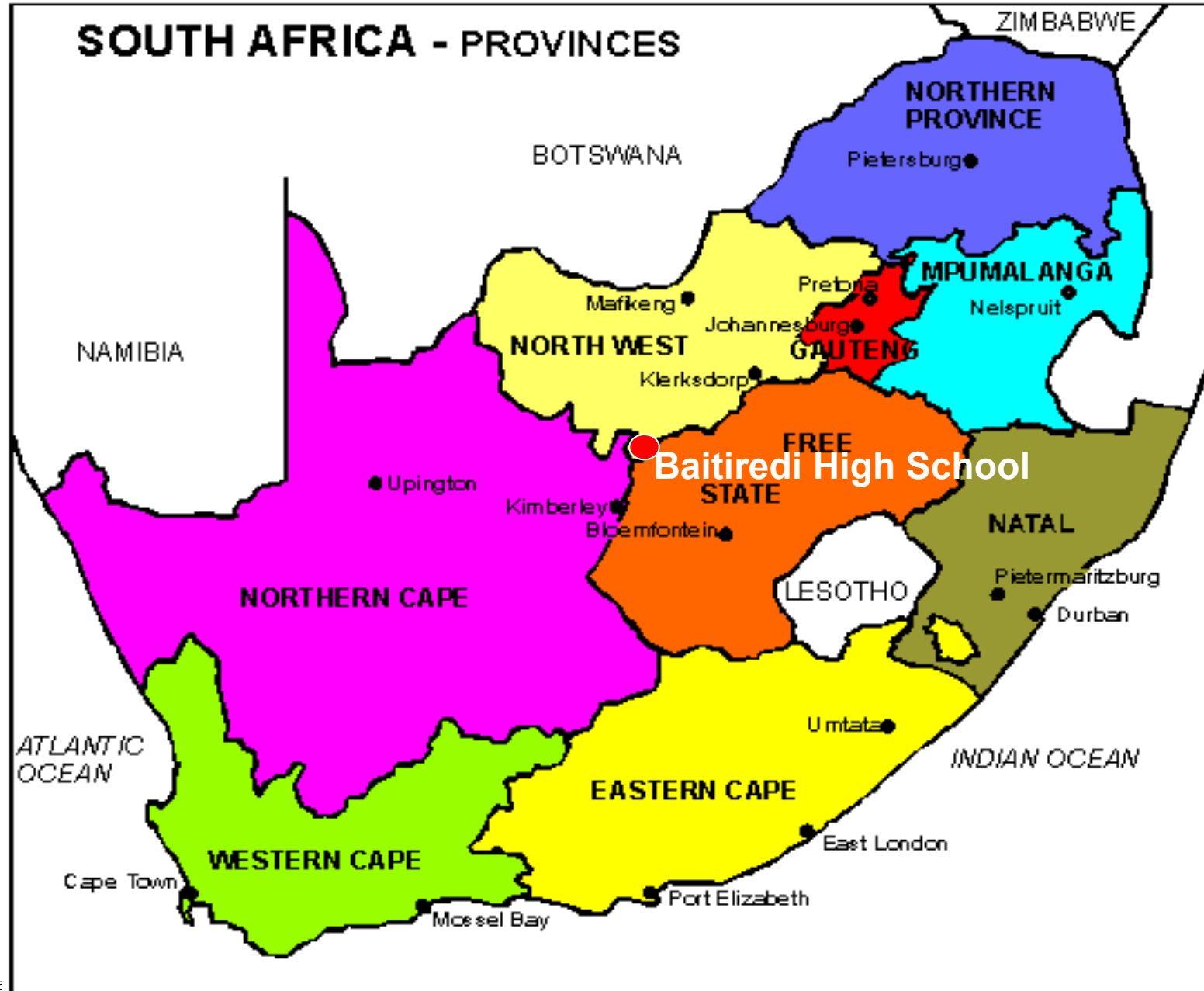
Authoring Team/ Online SME's / Assessors

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ROLE-PLAYERS IN ADP ACE PROGRAMME



# The North West Province of South Africa



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**SAP and SAP Research**

**Technology for Socio-Economic Develo**

**L3 - Lifelong Learning**

**Africa Drive Project**

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# Social Engagement of SAP

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## Accepting Challenges

### UN Global Compact

- SAP has been a member of the Global Compact of the United Nations since 2000. We focus on bridging the digital divide and on the global efforts for transparency and against corruption.

SAP also provided the **UN Global Compact Internet Portal**, the first of its kind for the UN. It is the Global Compact community's central instrument for the exchange of information and communication.

### World Childhood Foundation

- SAP is a Co-Founder of the German branch of the World Childhood Foundation. The Foundation supports projects all over the world that provide healthcare, education and treatment for sick, abused and needy children.

SAP is listed on the **Dow Jones Sustainability Index** for Socially Responsible Investment and the **FTSE4Good**.

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