



Medical Research Council

“Building a healthy nation through research”

Indigenous Knowledge Systems [Health] Lead Programme

“Going back to our roots for Innovative health solutions”



Access and Benefit Sharing: Case Studies and International Experience

Topic Three:

South African Medical Research Council Case Studies: Indigenous Knowledge Systems Lead Programme

FICCI INTERNATIONAL ROUNDTABLE ON TRADITIONAL KNOWLEDGE

FICCI, Federation House, Tansen Marg, New Delhi

13th November 2009, NEW DELHI INDIA

Dr Motlalepula Gilbert Matsabisa

FORMAT of the PRESENTATION

- South African Medical Research Council
- Indigenous Knowledge Systems Lead Programme
- MRC IKS Research Translation - Access and Benefit-sharing

CASE STUDIES

- Case Study 1: Partnerships, Training and Knowledge Generation - (Non-monetary)
- Case Study 2: Antimalarial Discovery – Monetary Beneficiation Principles
- Case Study 3: Poverty Alleviation and Wealth Creation –(Monetary and Non-monetary)
- Case Study 4: IKS Business Model for Commercial exploitation of IK IP
(Industrialization of ATM n contribution to 2^o economies)

Mission and Vision

To promote and advance indigenous knowledge systems through research and development by making it a valued health model in the global environment and to redress health traditions, which until now have neglected health research priorities and issues.

To be a centre of excellence in traditional medicines research regionally and to be competitive globally

To give the South African traditional Medicines research an international perspective

IKS Core Research Activities

RESEARCH & DEVELOPMENT

KNOWLEDGE
DEVELOPMENT and
MANAGEMENT

IKS BUSINESS
DEVELOPMENT

COMMUNITY SOCIAL
IMPACT

Our Laboratories

IK Holders / THPs

Medicinal Garden

Analytical & Discovery
laboratories

Manufacturing

Resource Centre



African Traditional Medicines Research and its Development



Research makes no difference to economy, health and quality of life of the people unless such research is translated into:

GRRIPPPP: Getting Research Results Into :

Policy (Influence)

Practice

Promotion and

Products



CASE STUDY 1: PARTNERSHIPS, TRAINING AND KNOWLEDGE GENERATION - (NON-MONETARY)



- Research and Discovery:

Clinical Research

Research development & partnerships

- Training Programs and Workshops

GCP , IPR, Product development etc.

- Community Entrepreneurship and Business Development

Business and Leadership development

- Political

IKS Bill

DTI patent amendment bill

National Biodiversity Management Act

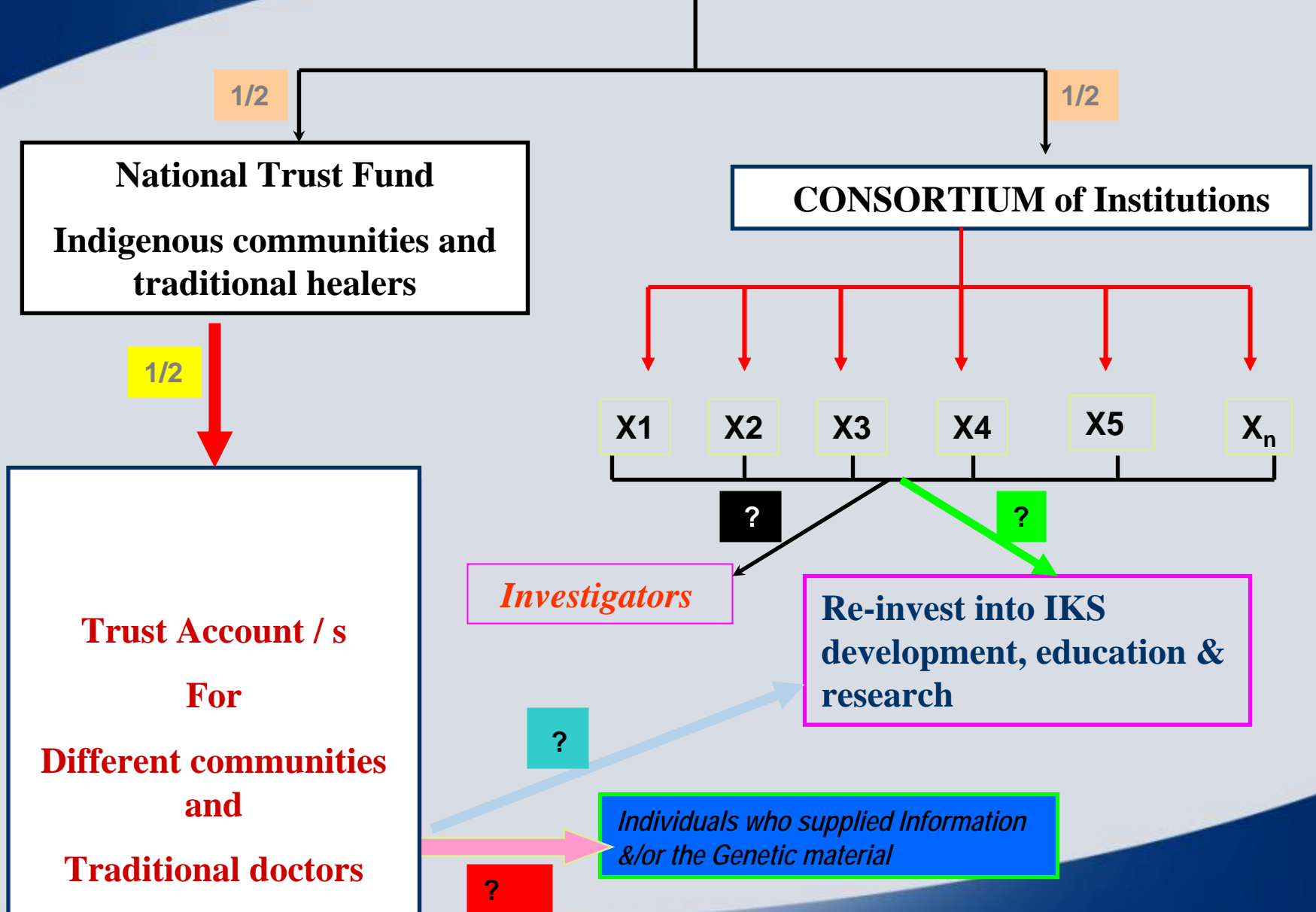
MCC - ATM Expert Committee



CASE STUDY 2: ANTIMALARIAL DISCOVERY – MONETARY BENEFICIATION PRINCIPLES

The Benefit-sharing Model

Consortia





CASE STUDY 3: SOCIAL IMPACTS FOR POVERTY ALLEVIATION AND WEALTH CREATION

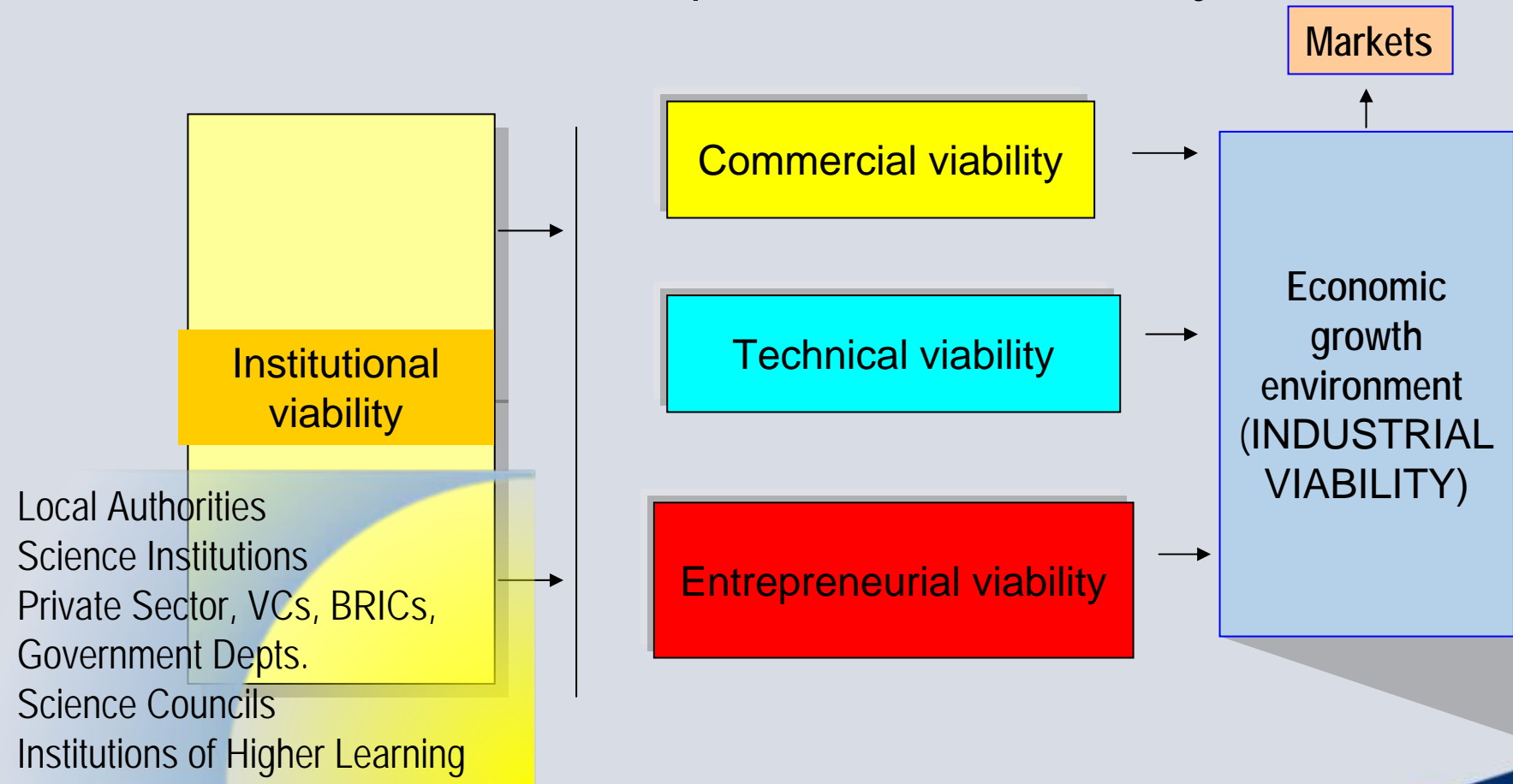
IKS and competitiveness

- The programme is based on the production, industrialization and commercial development of scientifically validated medicinal plants as sources of competitive advantages for entrepreneurial based community projects.

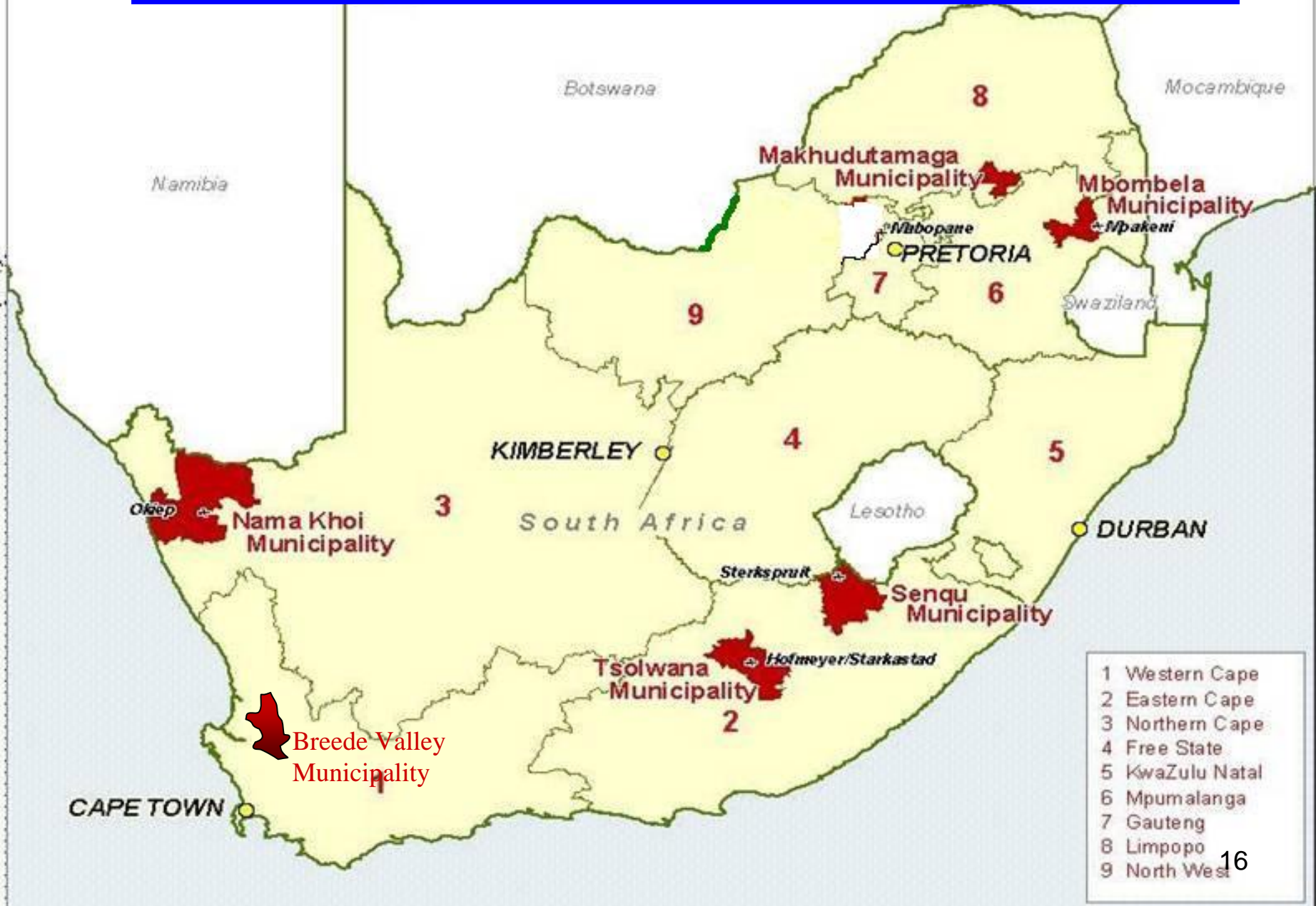


ATM Community Business Development - Theoretical model

Different Components of Industrial Viability



Geographical Scope of the Projects

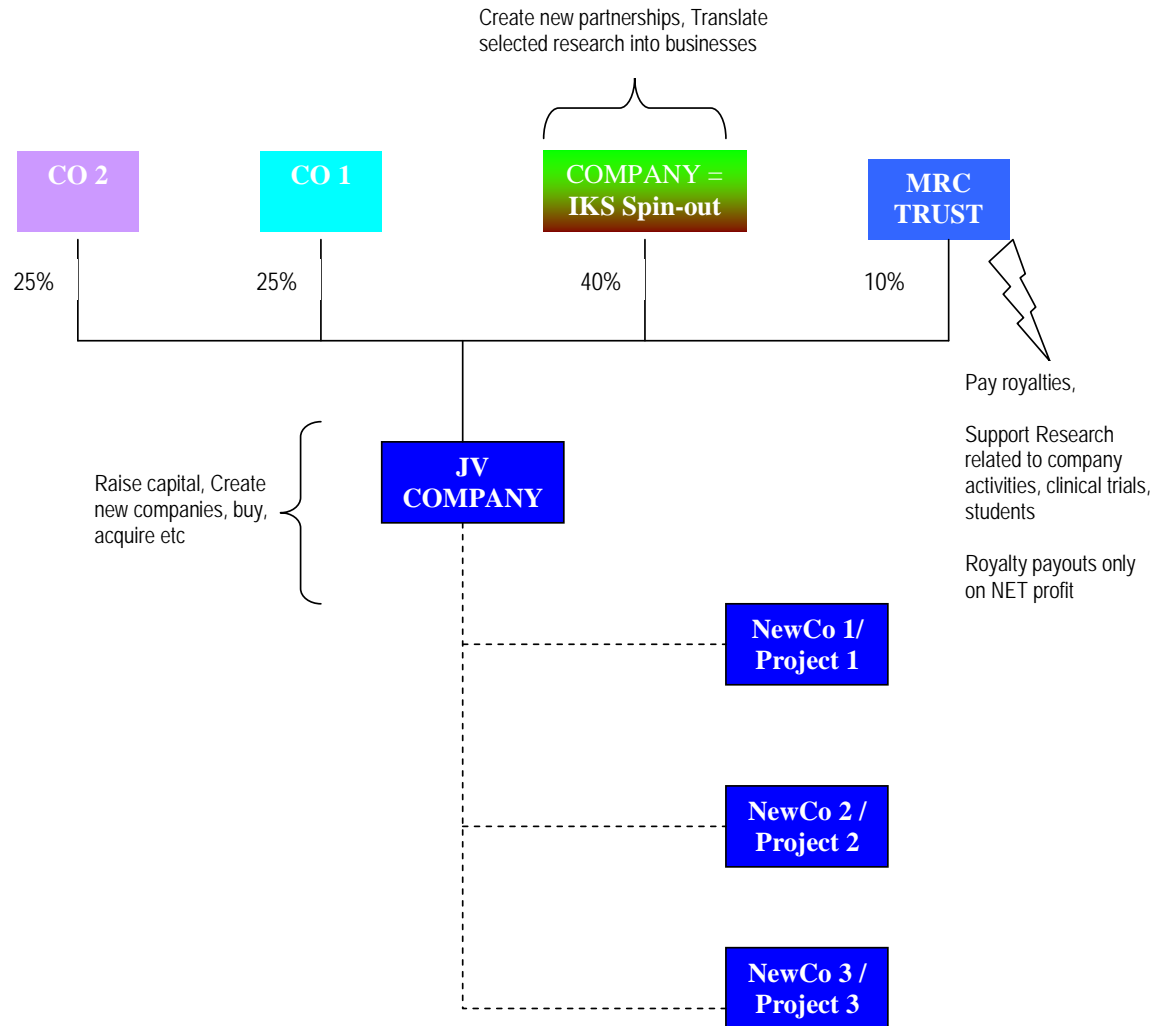




CASE 4 –

IKS BUSINESS DEVELOPMENT : COMMERCIALIZATION MODEL FOR SOCIAL IMPACTS FOR POVERTY ALLEVIATION AND WEALTH CREATION

Proposed MRC IKS Commercializing Entity





Business Partner/s
 Government bodies
 Corporate
 Financial Institutions
 Donors

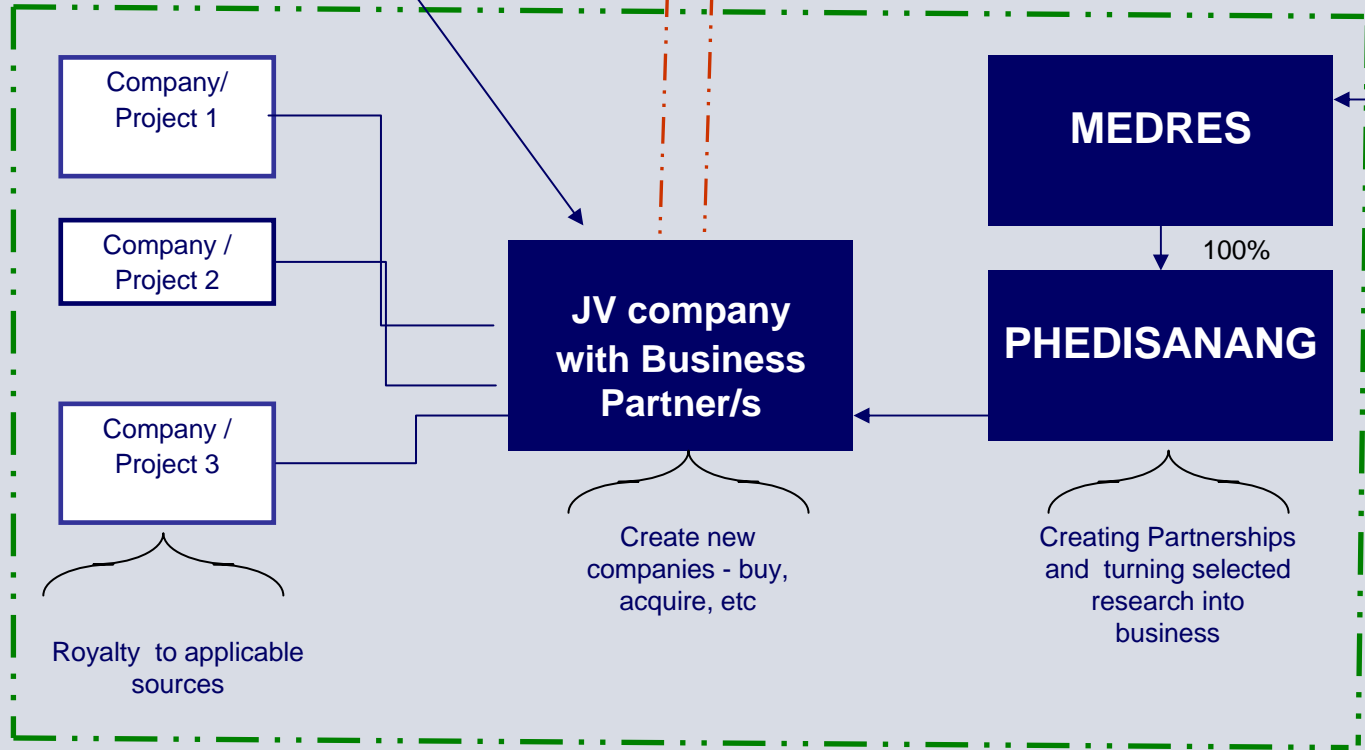
Business Partner/s

Funding

Funders

Loans
 Preference shares
 Ordinary shares
 Donor Capital

Loans / Preference shares to be redeemed upon maturity or converted to equity upon listing of underlying companies



MRC (Research Arm)

MEDRES

PHEDISANANG

JV company with Business Partner/s

New MRC initiative from the proceeds of research

Conclusion



- Establishing and securing markets for ATM
- Looking for serious industry partners for community commercial exploitation of ATM
- Technical skills exchange and development
- Community empowerment, involvement and wealth creation
- Horizontal & vertical integration development within the areas surrounding the medicinal plant projects
- Industrialization of African herbal medicinal plants (2^o economies)
- Local production of quality “Essential Traditional Medicines”
- Contribution to MDGs (MDG 4, 5 and 6)

IKS Staff Complement



- **Staff:**
- Dr MG Matsabisa – Programme Director & Research
- Ms J Petersen - PA and Office administrator
- Mr Gustavo Luis Alfaro-Altuve – Business Development
- Ms Neo Mooketsi MSc – Discovery Research
- Mr D Ndiitwani MSc – Discovery Research
- Ms MT Javu BA - THP and Community Liaison
- Mr J Nyelimane - Technical support
- Ms T Mbobo - Research support
- Mr TK Lemena – Analytical chemistry
- Mr M Ndumiso - Microbiology
- Dr N Bapela – Pharmacology and Bioassays
- Dr M Sekhoacha - Animal and Clinical Research
- Dr D Molefe - Chemistry

Students & Interns:

- Mr. P Legoale, PhD UWC
- Ms A Rankoana, PhD, UL
- Ms M Lekhooa, MSc intern FS
- Mr B Sehume, MSc intern, UWC

Project Leaders and collaborators

Dr Y Seier – Primate Unit MRC

Dr M Mdhluli – Primate Unit (Operations) MRC

Dr M Faber – Nutrition Intervention Unit MRC

Dr M Smuts - Nutrition Intervention Unit (NWU)

Physicians and PI

Dr O Ebrahim – Brenthurst Clinic

Dr E Yoosuf – Brenthurst Clinic

Dr MA Dhansay – MRC

Dr MD Khumalo – GP Botshabelo

Prof A Dhai – Wits

Prof A Walubo – UOVS

Dr M Mhlakaza – Centre for Diabetes

Dr P Moodley - GP

THANK YOU



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Department of Health – South Africa

Medical Research Council of South Africa (MRC)

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Department of Social Development (Western Cape) – South Africa

SAASTA

NRF

WIPO and FICCI

