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To: All HSRC Office's

CC:

Subject: Izwi 2nd Qurater 2004 - What's happening to R&D?

Dear All

Attached is an article by Dr Michael Kahn that appeared in Izwi.

Kind regards Marise

WHAT'S HAPPENING TO R&D?

MICHAEL KARR B

Universities play a key role in the cobonal system of incovation. They are the producers of highly skilled people who will make things trapped in the emerging information society and an important sits of research and experimental development (REO). Along with government and business they constitute what in being termed a 'triple hints' that drives impossible.

Earlier this year the Department of Science and Technology published the first results of the 2003/02 Survey of Inputs into Research and Experimental Development. The Knowledge Management group of the HSRC performed the Survey according to OECO guidelines that are embodied in the Frances Manager.

The Survey seeks to capture financial and human resource information as well as information on the fields where RSD is conducted. It covered higher education government, acience councils, business and notifor-profit organizations. The work involved development of a stemodalogy, questionnaires, identification of respondents and the associated fieldwark.

Why does the R&D Sorvey statte? From a knowledge changement perspective countries and their innovating organization need to know how much R&D is being date, the extent of innovation, and the way that knowledge management practices constitute to these. Our competitiveness rankings also depend on the extent is which we are able to generate believable indicators, inputs to R&D being one of these.

Such Surveys are not new to South Africa. They have been conducted since the 70s. After 1989 the responsibility for performing the Survey shifted across a number of organizations, and between 1996 and 2002 no servey was conducted. The result of these changes and gaps is that the state little sories has been interrupted and institutional memory to perform the survey has been weakened. The 2001/02 Survey therefore required the establishment of methodologies and information systems from scratch. It is now intended that the Survey will be conducted annually, with full and short questionnaires being used in alternaty years.

In the full survey of 2001/02 a consul of higher intuction, government and science coordin was effected; for business and the not-for-profits a purposee sampling sectnique was employed.

So much for background. What did the Survey find? The most important indicator is the Gross Expenditure on R&O (CERO) expressed as a percentage of GDP, which cathe sid at 0.76%. This represents a modest increase on the 0.65% that was research in 1997/98, is way below the 1.04% of 1991/92 and falls short of the target of 1% set in the National R&O Strategy of 2002. Maybe the small increase suggests we have started in move observed.

GERC is measured at R7 466 millions, a not inconsist arable sum. Of this amount Higher Education accounts by 25.3%. This represent an increased share to relation to 1001/92, Business has also grown in share to 54.7%. Obviously the state easy has to be located on the side of government and the science councils, which is now down from 32% to 20.0% of the sold. It is sempting to ask which the ideal proportions across the three players should be. The answer is that there is no clear answer.

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3165