Supplementary material to:

Bhogal N. S Afr J Sci. 2018;114(3/4), Art. #2017-0297, 7 pages.

How to cite:

Bhogal N. The role of the Square Kilometre Array in South Africa's economic development strategy [supplementary material]. S Afr J Sci. 2018;114(3/4), Art. #2017-0297, 3 pages. http://dx.doi.org/10.17159/sajs.2018/20170297/suppl

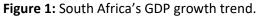
Table 1: List of commercial spin-offs

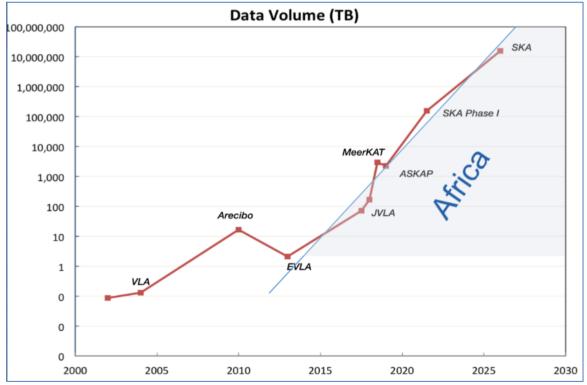
Product	Space origin
Tumour tomography	NASA scanner for testing
Battery-powered surgical instruments	Apollo programme
Non-reflective coating on PC screens	Gemini spacecraft window coating
Emergency blankets (survival/anti-shock)	Satellite thermal insulation
Mammogram screening, plant photon-counting technology	Space telescope instruments
Skin cancer detection	ROSAT X-ray detection
Dental orthodontic spring	Space shape memory alloys
Early detection of cancerous cells	Microwave spectroscopy
Carbon composite car brakes	Solid rocket engine nozzles
Car assembly robots	Space robotics
Flameproof textiles, railway scheduling, fuel tank insulation	Various Ariane rocket components, including software
Lightweight car frames, computer game controllers, fuel cell ve- hicles, coatings for clearer plastics, heart-assist pump, non-skid road paint	Various space shuttle components
Fresh-water systems	International Space Station technology
Corrosion-free coating for statues	Launch pad protective coating
Flexible ski boots, light allergy protection, firefighter suits, golf shoes with inner liner	Various space suit designs
Healthy snacks	Space food

Source: http://www3.weforum.org/docs/WEF Bringing Space Down to Earth.pdf



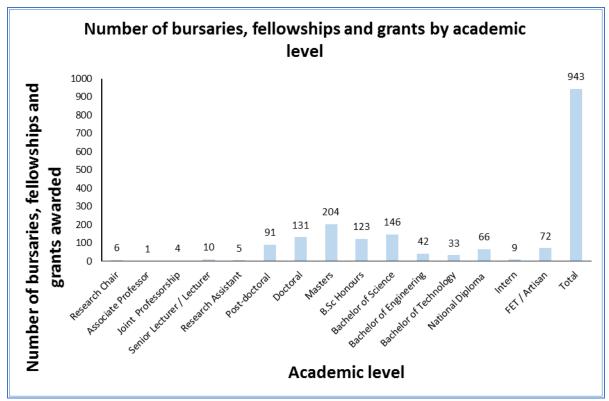
Source: Statistics SA



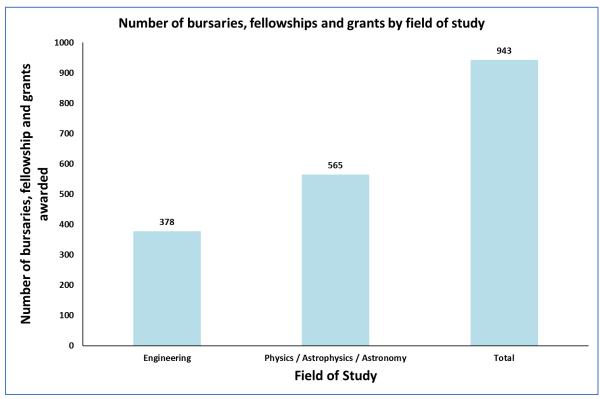


Source: Russ Taylor, SKA Chair

Figure 2: SKA SA's anticipated data volume.



Source: Kim de Boer, General Manager: Human Capital Development, SKA SA **Figure 3:** Number of bursaries, fellowships and grants awarded, by academic level.



Source: Kim de Boer, General Manager: Human Capital Development, SKA SA

Figure 4: Number of bursaries, fellowships and grants awarded, by field of study.