

Contents

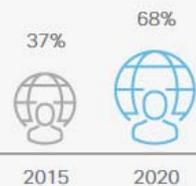
- p1** **Promoting digital skills and broadband in rural areas**
Northern Cape and KZN DTPS Minister engagements
- p2** **Internet traffic predictions for 2020**
- p3** **Digital skills for local government**
KZN e-Skills CoLab presentations on 'Safer Internet for Parents' and 'Managing your digital footprint'
- p3** **NEMISA and its graduates create documentary for the Department of Correctional Service**
- p4** **Contact NEMISA**
- p4** **The provincial e-skills CoLabs**
- p5** **All about the Western Cape e-Skills CoLab: e-Inclusion and Social Innovation**
- p7** **NEMISA updates**
- NEMISA presentation at the Film and Publication Board youth event
 - NEMISA's films part of the Gauteng Film Commission's programme at the Opportunities and Careers Expo



Promoting digital skills and broadband in rural areas

The DTPS conducted a number of community engagement initiatives during June 2016. [Read more on p1](#)

Internet Users: % of Population



Internet traffic predictions for 2020

Information on South Africa from Cisco's 'Visual Networking Index Global IP Traffic Forecast, 2015-2020'. [Read more on p2](#)



NEMISA and its graduates create documentary for the Department of Correctional Service

Find out more about the Ithubalami documentary. [Read more on p3](#)



All about the Western Cape e-Skills CoLab: e-Inclusion and Social Innovation

Find out more about the CoLab's focus, past activities and future plans. [Read more on p5](#)



e-skills awareness

Promoting digital skills and broadband in rural areas

As part of promoting broadband rollout, as well as focusing on the youth as part of honouring June 16 in 1976, the Department of Telecommunications and Postal Services (DTPS) conducted a number of community engagement initiatives during June 2016.

The internet is viewed as part of the solution to eliminating the digital divide. Broadband – accessible, fast and reliable internet – is the enabling internet infrastructure. It is key that people have access and e-skills training to ensure that the digital divide does not widen.

The broadband rollout has prioritised eight rural districts. The DTPS June community engagements also focused on rural areas, in particular creating awareness around the importance of ICT and the internet for the development of individuals and communities.

Northern Cape engagement

On 21 June 2016, DTPS Minister, Dr Siyabonga Cwele, spoke at the handing over of the computer lab to Veritas High School in De Aar, Northern Cape. The lab was sponsored by the South African State Information Technology Agency (SITA).

Mr Abner Wagenaar, Local Economic Development Manager for Solar Capital, attended. The Northern Cape/Southern Gauteng e-Skills CoLab has partnered with Solar Capital's Community Training Centre, based in De Aar. The aim is to bring e-literacy training and opportunities to the communities. Mr Wagenaar represented Solar Capital, as well as NEMISA NC/SG e-Skills CoLab at the event.

KZN engagement

On 24 June 2016, Minister Cwele delivered the keynote address at the handover of the Hammarsdale Community Cyber Lab in KZN. The cyber lab was installed at the Sizakala

**What is ICT?**

ICT stands for information and communication technology.

What is an e-skill (digital skills)?

An e-skill is more than knowing the basics of how to use a computer (computer literacy). While it's essential to be computer literate, the important question is: what can you do with that? **An e-skill means being able to use technology to add benefit to your life – to actively take part in the world and move ahead.**

Community Centre.

At the event exhibition, the KZN e-Skills CoLab promoted digital skills (e-skills). In line with the Minister's focus on SMMEs (small, micro and medium enterprises) and the youth, the CoLab showcased the work of two SMMEs, Wisolve and Clicka.

"We wanted to show their products and what ICT can do," says Dr Surendra Thakur, Director of the KZN e-Skills CoLab. "Part of e-skills training involves ICT practitioner skills and e-entrepreneur skills."

Wisolve has a student portal service, iStudent. It trawls the internet for anything related to the student's particular university. Clicka is a community group decision making mobile app. It allows groups to pose a question and members can then vote.

The KZN e-Skills CoLab also conducted impromptu training

 to next page



DTPS Minister, Dr Siyabonga Cwele, at Veritas High School in De Aar, Northern Cape



Dr Surendra Thakur, Director of the KZN e-Skills CoLab, at the handover of the Hammarsdale Community Cyber Lab.

Article continued: Promoting digital skills and broadband in rural areas

on web design and HTML at their stand. This has led to discussions around further community training.

Minister's promotion of e-skills training

At both engagements, Minister Cwele spoke about the national e-skills training that was done by NEMISA and the African Centre of Excellence for Information Ethics (based at the University of Pretoria). He positioned the trained delegates as ambassadors in ICT and digital education.

Training was conducted in the use of internet, social media and blogging, mail and messaging, word processing and Microsoft word, spreadsheet and presentation skills.

He also noted that the youth should follow careers in science, engineering and ICT. Minister Cwele spoke about the importance of cyber security. 😊



What is a mobile app?

A mobile application (mobile app) is a computer programme that runs on mobile devices such as smartphones and tablet computers.

What is cyber security?

This means the measures that need to be taken to protect computers/ICT against unauthorised access or attack. It includes security applications like anti-virus programmes installed on computers. It also includes teaching people how to protect their systems. 'Cyber' usually refers to the internet or computer networks.

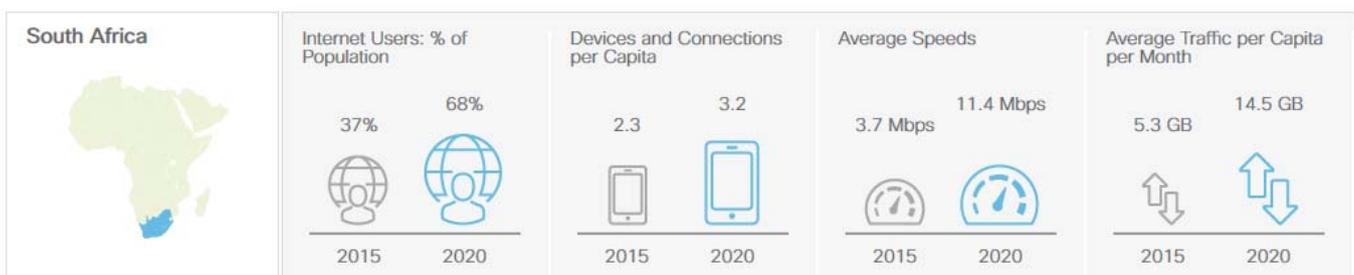
Internet traffic predictions for 2020

The Department of Telecommunications and Postal Services (DTPS) Minister, Dr Siyabonga Cwele, noted the impact of the internet on people and community's lives in his addresses during the June DTPS community engagements. This was linked to the importance of building broadband infrastructure. At the same time, it was emphasised that people need to have digital skills (e-skills) to make use of the internet and ICT as an enabling factor for development.

In light of these comments, Cisco's 'Visual Networking Index Global IP Traffic Forecast, 2015-2020' provides some interesting predictions with regards to internet traffic. The report was released in June 2016.

- In Middle East and Africa, internet traffic will grow 6.1-fold from 2015 to 2020 – that's a compound annual growth rate of 44%. internet traffic in 2020 will be equivalent to 527 x the volume of the entire Middle Eastern and African Internet in 2005.
- **The prediction for South Africa is that internet traffic will grow 2.9-fold from 2015 to 2020.** This is a compound annual growth rate of 23%. It means that South African Internet traffic in 2020 will be equivalent to 133 x the volume of the entire South African Internet in 2005.

For more information on the report and a tool to show conclusions both visually and as copy, go to: www.cisco.com/c/m/en_us/solutions/service-provider/vni-forecast-highlights.html#



Graphic from the Cisco site tool for the 'Visual Networking Index Global IP Traffic Forecast, 2015-2020'.



e-skills training

Digital skills for local government

On 6 June 2016, Dr Surendra Thakur, Director of the KZN e-Skills CoLab, gave presentations on 'Safer Internet for Parents' and 'Managing your digital footprint'. It was part of the Open Forum on 'Know your vulnerability and close the gap against cyber crimes' held in Durban, KZN. The event was hosted by the Safer Cities Department, Durban Municipality and Imagine Durban.

The programme also included a presentation by Senior Advocate Ms O Naidoo of the Sexual Offences and Community Affairs unit, National Prosecuting Authority. She spoke on 'Internet safety and child pornography'.

The response was very positive and Dr Thakur has been invited to repeat the talk. The audience of around 150 people included representatives from local government,



Durban Local History Museums, school educators and NGOs, among others. The KZN e-Skills CoLab focuses on the e-enablement of government service delivery. 😊



NEMISA update

NEMISA and its graduates create documentary for the Department of Correctional Service



NEMISA boot camp graduates at the Department of Correctional Services.

'Ithubalami: my rehabilitation path to new beginnings' is a documentary about the offender rehabilitation programme of the Department of Correctional Services (DCS). The rehabilitation programme was created in a partnership between, among others:

- DCS
- Department of Communications
- Department of Public Enterprises
- National Application Centre (a training centre for juveniles in correctional facilities)
- MERSETA (Manufacturing, Engineering and Related

Services Skills Educational Training Authority)

- National Youth Development agency
- NEMISA

Through in-depth interviews with various role players, the documentary showcases offender rehabilitation and how correctional centres are now places of new beginnings where formal education and skills development are key focus areas.

The documentary also looks at social issues (such as poverty, crime and unemployment) within offender communities and how rehabilitation and training can make them productive members within communities. Aligned to that, it examines the interventions that increase the chances of employment and reintegration of released offenders.

The documentary was officially launched by the Deputy Ministers of the three stakeholder government departments on 29 June 2016 at the SABC in Auckland Park, Gauteng.

NEMISA involvement

To commemorate the progress of the rehabilitation programme, NEMISA was asked to create the short documentary. This involved Thabang Phetla from NEMISA and three graduates from the NEMISA Film and TV Boot Camp members. The eight-week boot camp ran from February to April this year.

The NEMISA team were assisted by the Government

 to next page

Article continued: NEMISA and its graduates create Department of Correctional Service documentary

Communication and Information System (GCIS), especially with editing.

Filming began on 6 June 2016. There was a viewing on the 14 June with the different stakeholders, and then the launch on 29 June. The response was very positive. SABC

Chief Operations Officer, Hlaudi Motsoeneng, said that he was impressed with the documentary and that the public broadcaster will give its full support to the documentary.

The SABC has now shown interested in creating a series of documentaries. 😊

NEMISA boot camp graduates filming the documentary.

More from the NEMISA Boot Camp graduates involved in the documentary

- Ms Masoko Tshaba operated the camera: "It was amazing. I learnt a lot from Thabang and the team. Also, it was an interesting experience to be in the prisons."
- Mr Tebogo Nkosi did lighting and some of the soundtrack: "It was exciting, for sure. It is also good to get something on my CV. Now we know more about what happens on a set."
- Mr Sihle Nkondi did sound: "It was great and I enjoyed it. I got the chance for experience and exposure."



NEMISA's head office will be moving to the following address mid-July: South Building Waterview Corner, 2 Oppenheimer Ave, Bruma Lake Office Park, Bruma 2026.

Contact NEMISA

The National Electronic Media Institute of South Africa (NEMISA) can be contacted at the following:

- info@nemisa.co.za
- 011 484 0583
- PO Box 545 Auckland Park, Johannesburg, 2006

The provincial e-skills CoLabs

The provincial e-skills CoLabs are based at universities. Each has a focus on a specific area in e-skills:

- **Western Cape e-Skills CoLab:** e-Inclusion and Social Innovation, based at the University of the Western Cape
- **KwaZulu-Natal e-Skills CoLab:** e-Enablement for Effective Service Delivery, based at Durban University of Technology
- **Eastern Cape e-Skills CoLab:** ICT for Rural Development, based at Walter Sisulu University
- **Gauteng e-Skills CoLab:** Creative New Media Industries, based at the National Electronic Media Institute of South Africa (NEMISA)
- **Limpopo e-Skills CoLab:** Connected Health, based at the University of Limpopo
- **Northern Cape/Southern Gauteng e-Skills CoLab:** e-Literacy and e-Business (knowledge economy and e-social astuteness), based at the Vaal University of Technology
- **North West e-Skills CoLab:** e-Agro-tourism, based at the University of the North West



e-Skills CoLab profile

All about the Western Cape e-Skills CoLab: e-Inclusion and Social Innovation



Dr Leona Craffert, CoLab Director for the Western Cape e-Skills CoLab

ICT has become so much a part of everyday life that it is almost everywhere. Whether you use computers as part of your work or make calls on a cellphone in a rural area, ICT is the enabler. Not only does the technology exist but it keeps changing and developing further. It also keeps on integrating itself into more and more areas of life and work. What does this mean for people in general?

Impact of technology on people

To function effectively in today's world, people need to know how to use computers and other digital devices. They are part of the enabling environment that allows people to improve their quality of life and move ahead in their work and personal lives.

This means that those people excluded from ICTs and from having digital skills (e-skills) are effectively excluded from progressing and from the broader society (social exclusion). This is the digital divide, an often-used saying, but its impact is extensive. Without digital skills and access to technology (eg internet and devices), the development of people and communities can become 'frozen' and even worsen.

Skilling, up-skilling and re-skilling

Having e-skills or digital skills has become an essential part of the skill set needed to function within the knowledge society. It doesn't stop there though. It's not enough to just acquire some digital skills. With technology changing rapidly, people need to continuously update their skills. There are also new technologies introduced and people need to learn how to use these new technologies.

e-Skills identified in policy

This need for e-skills and e-skills training has been identified in numerous policies, for example:

- South Africa's National Development outlines an e-literate society by 2030.
- SA Connect, the country's broadband policy, has Digital Opportunity as one of its pillars. Digital Opportunity looks at the ways broadband can be used for social and economic development. One of the focus areas is training South Africans in digital skills (e-skills) so that they have the know-how to use broadband in a way that helps individuals and communities.
- The New Growth Path (the national 5-year economic plan for the country) views the knowledge economy as a driver for job creation. A strong national skills base (including digital skills base) is a prerequisite for building or ensuring a knowledge economy.

NEMISA and digital skills

NEMISA's aim is to e-skill South Africa through partnerships and collaboration. NEMISA is in the process of becoming the Ikamva National e-Skills Institute (INeSI).

The organisation works on a national, provincial and local level. The collaborative framework ensures that stakeholder e-skills initiatives are aligned to government policy, duplication is reduced and national impact is increased.

The work of the CoLabs

Each CoLab has its own focus area. The aim is that the provincial e-skilling interventions and the CoLab focus area are developed so that they scale nationally. All CoLab

 to next page

Participants, including the DTPS Deputy Minister Prof Hlengiwe Mkhize, at the S-Direct: Social Digital Innovation' seminar in March 2016.



Article continued: All about the Western Cape e-Skills CoLab: e-Inclusion and Social Innovation



Students at the 2015 Postgraduate Diploma in Information Technology



2015 MediaTech Project SMME participants

activities focus on:

- e-Skills training, such as e-literacy training
- Curriculum and course development
- Knowledge for Innovation – this means activities such as commissioning and presenting research reports, hosting colloquiums, thought leadership engagement and product development (apps, videos etc.)

Dr Leona Craffert is Director for the Western Cape e-Skills CoLab: e-Inclusion and Social Innovation. It is based at the University of the Western Cape. She tells us more.

Q Explain the CoLab focus?

The CoLab is primarily responsible for, in the area of e-inclusion and social innovation:

- Facilitating multi-stakeholder collaboration in the area of e-Inclusion and social innovation
- Trans-disciplinary research for enhancing the thematic area
- Social innovation capability development
- Knowledge creation
- Targeted training interventions for social impact

As part of the national network of CoLabs, the WC e-Skills CoLab is also responsible for contributing towards the national discourse in terms of skills, capacity development, knowledge creation and policy formulation with respect to e-readiness in general and e-inclusion and social innovation in particular.

Q Explain the kind of work the CoLab has been doing?

In line with the above strategic objectives, the CoLab activities have, for the past few years, been clustered around five thrusts related to e-Inclusion and Social Innovation:

- Developing a digital skills framework that can be applied across all the sectors (business, government, civil society, academic context) – this is to facilitate a coordinated effort in terms of the diversity of e-skills initiatives (DigitalFrameworkOne).
- Empowering and developing capability of intermediaries (e-centre managers, ICT incubation

units etc) who are responsible for community e-skills development for the meaningful use of ICTs for work and life. The purpose of this initiative is to develop content, frameworks and interventions that can assist in accelerating the e-skilling drive within the province and nationally. Collaborating with provincial structures enables the CoLab to have a provincial reach. A train-the-trainer approach is followed for maximum reach.

- Targeted e-skills training interventions and research to address the digital skills needs of vulnerable groupings in particular around e-inclusion and social inclusion (eg women, micro-enterprises etc). Selected interventions are focused on the high-end digital skills portfolio to contribute towards our competitiveness as a country (eg post-graduate diploma in software development, post-graduate diploma in Data Analytics and e-Leadership).
- Collaboration with the Provincial Broadband Implementation Team where there is a focus on developing models and frameworks to stimulate and accelerate uptake (e-skills and organisational capability development) and increase the demand for ICTs and internet use.
- Targeted research projects and Thought Leadership workshops to stimulate the transitioning of businesses and organisations (large business, SMMEs, NGOs and government departments) so that they remain competitive within the digital economy. The focus is mainly on e-skills and organisational capability development.

Q What are the CoLab plans for this financial year?

The CoLab will continue its activities within the above five areas. However, this year it will particular on:

- An initiative to identify and engage the various e-skills intermediaries. This is in view of establishing a common framework for e-skills interventions, identifying e-skills training needs (based on community input) and exploring opportunities for the scaling and acceleration of e-skills development initiatives for community members. This will be done

 to next page

Article continued: All about the Western Cape e-Skills CoLab: e-Inclusion and Social Innovation

in collaboration with relevant stakeholders in the province.

- Refining of training/intervention methodology aimed at enhancing micro-enterprises' meaningful use of ICTs (e-skilling) for building their businesses. This includes collaborating with intermediaries to implement the interventions (train-the-trainer approach)
- Developing training material/interventions for the e-skilling of leaders (managers) to facilitate e-skills development and organisational capability development for the digital economy.
- Upskilling of young people in mobile apps development to address local socio-economic challenges and to create job opportunities.

Q What is your background?

As a research psychologist registered at the HPCSA, I started my career as a teacher in Mathematics but joined the Human Sciences Research Council after three years. I worked as a senior research specialist in the thematic areas of 'People and Work' and 'People and the Environment' for 11 years. After completing my PhD in Organisational Transformation (2001), I joined a JSE-listed ICT company as an Organisational Development Specialist, focusing on large-scale systems implementations, ICT outsourcing projects, skills and organisational and leadership capability development.

I have more than 18 years of experience in the multi-disciplinary area of the people-technology interface within business, academia, government and broader community spheres. I am passionate about helping to create opportunities for people to thrive and excel.

Since 2012, I have been CoLab Director for e-Inclusion and Social Innovation. 😊

WC e-Skills CoLab message

I would like to share a quote: "With the global rise of a digital society, realising the right of all people to access and use ICTs, can help achieve the full potential of sustainable development. In this effort, broadband emerges as a basic human right because it is a catalyst for sustainable development across all dimensions (SG). To achieve this goal requires not only infrastructure but also human capacity building in order for people to take advantage of the services available to them. This necessitates a need for greater affordability of ICTs, enhanced education as well as availability of local - and relevant - content." (Andreasson, K. (2015). Digital Divides: The new challenges and opportunities of e-Inclusion)

South Africa has dropped from the 47th position in 2007 to the 75th position (2015) on the global e-Readiness rankings (WEF). This has serious implications for the quality of life of all our citizens, the socio-economic development of the country and our ability to remain competitive within the global knowledge and digital economy. We need to ensure that our e-skilling agenda focuses on both ends of the continuum: from the e-inclusion (social inclusion) of citizens at large, vulnerable and marginalised groupings (eg women, rural citizens, NEETs) to the development of digital skills, new business models and capabilities that are required to participate in and compete successfully in the global economy.

NEMISA updates

- On June 16 2016, the Film and Publication Board hosted an event for youth in Gauteng. Topics included ways to use the internet to empower your life. Ms Tebogo Serobatse from NEMISA gave a presentation.
- The Opportunities and Careers Expo was held from 10-19 June 2016 in Gauteng at the Nasrec Centre. It focused on youth and was hosted by the Gauteng Department of Education. NEMISA was part of the Gauteng Film Commission's programme. This included the showing of three NEMISA documentaries: 'Education in our Lifetime', 'Izwe Lethu' and 'Fedefokol'. These came from the National Digital Repository (NDR) documentaries and were created by NEMISA graduates. The NDR is a youth-based project that collects, digitises and promotes South African heritage as seen by its youth. More information can be found at www.facebook.com/NDR.Heritage/.