



Meet the NEMISA CEO

Dr Ndivhoniswani Aaron Tshidzumba was appointed as NEMISA CEO in May 2015. This proudly South African man gives us some insights. [Read more on p1](#)



'ICT and Agriculture: Realising the Development Dividend' Seminar

The seminar looked at how ICT can be used to help small and emerging farmers. [Read more on p4](#)



Developing new media skills in the creative fields

Creative new media is an important area for economic development. NEMISA is creating new media skills through learnerships and skills programmes. [Read more on p5](#)



Social media training for small businesses and entrepreneurs

Social media is not just about talking with friends on the internet. It plays an important part within the business community. [Read more on p8](#)

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e-Literacy training pilot projects in East London and Limpopo

We live in a world of technology. South Africa needs to be part of this. It starts with e-literacy. [Read more on p9](#)



Teaching STEM to learners from rural areas

Using technology (or ICT) is part of a group of skills called the 'STEM skills'. STEM stands for science, technology, engineering and maths. [Read more on p10](#)



The NYDA Rural Expo

NEMISA and its Eastern Cape e-Skills CoLab were involved in the National Youth Development Agency Rural Expo. [Read more on p12](#)



DTPS Youth Month Commemoration events

On 26 June 2015, the Department of Telecommunications and Postal Services held a Youth Month Commemoration event in Harding, KwaZulu-Natal. [Read more on p13](#)

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NEMISA profile

Meet the NEMISA CEO

Dr Ndivhoniswani Aaron Tshidzumba was appointed as CEO at the National Electronic Media Institute of South Africa (NEMISA) in May 2015. This proudly South African man gives us some insights:



Dr Ndivhoniswani Aaron Tshidzumba, NEMISA CEO

We are going to achieve this by developing e-skills (digital technology skills that allow you to actively take part in the world and move ahead). The aim is for all South Africans to participate in society – where the influence of information and communications technology (ICT) is becoming more and more powerful.

This is particularly important for groups at risk of being excluded from society and the economy. This includes the previously disadvantaged, elderly, jobless, marginalised

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The National Electronic Media Institute of South Africa (NEMISA) came into being as a non-profit institution of education and learning for skills in TV, radio and broadcasting. The focus was on training previously-disadvantaged individuals, particularly women.

Now there are new priorities with the growth of digital technologies. It means new types of creator-technicians are needed. These people are critical to South Africa's role in the digital age. NEMISA will need to change and adopt a new mandate.

The new institute will now offer targeted, relevant coursework that covers the range of production activities needed for digital content production. It will offer training for a world where video, sound, graphics, animation, telephony and data meet across computers, satellites, television and the internet.

The e-Skills Institute (e-SI) is a branch at the Department of Telecommunications and Postal Services. Over the past six years, it has been building provincial CoLabs and creating training programmes, among other things. The aim is to e-skill South Africa – train digital skills for the world of technology.

The Institute for Satellite and Software Applications (ISSA) is a directorate at the Department of Telecommunications and Postal Services. It offered post-graduate qualifications in engineering and information and communication technology.

Integrating NEMISA, the e-SI and ISSA: The three organisations are now in the process of being integrated. The aim is to become the Ikamva National e-Skills Institute (INeSI) for training e-skills and uplifting individuals and communities. This will be in support of government policies, such as South Africa Connect – the broadband policy.

Q What is your history with NEMISA?

I was a NEMISA student in Television Production – Post Graduate Diploma in 2000. Our group was the first to be trained at NEMISA in Parktown, Johannesburg, and we graduated in 2002. I joined NEMISA as the Chief Executive Officer in 2010 and left in 2012. I am back at NEMISA today – again as the Chief Executive Officer.

Q What are the future plans for NEMISA?

NEMISA is moving towards a new institute called the Ikamva National e-Skills Institute (INeSI). The name was formally launched on 21 February 2014.

INeSI's mandate is in line with the aims of the National Development Plan (NDP) and the Medium Term Strategic Framework (MTSF) 2014-19, SA Connect (Broadband Policy) and the White Paper on Post School Education and Training.

The institute's purpose is to collaborate with stakeholders across government, business, education, civil society and within global development. The focus is on building South Africa's e-astuteness and e-readiness capability. e-Astuteness means being able to use digital technology in a smart way for your own and your community's benefit.

Article continued: Meet the NEMISA CEO

youth, women, and people not in employment, education or training (NEETs).

Q What is your perspective on e-skills training in SA?

The challenge facing South Africa is harnessing and making the best of all the efforts of government, business, education and civil society. These need to be channelled into a combined and aligned approach. This includes making South Africa the place where all new ICT applications (aimed at developmental agendas) can be tested, adapted and applied.

What the new institute, INeSI, brings is to provide an enabling framework that:

- Coordinates, integrates and aggregates (combines) the many e-skills and e-readiness interventions that exist across government, education, business and civil society
- Identifies gaps and overlaps – and then recommends collaborative solutions
- Leads in developing impact assessments of these interventions against the NDP goals

- Aggregates (combines) the development of South African e-skills and e-astuteness capacity, from deep rural to urban areas, to build a more inclusive and innovative economy where the influence of ICT is becoming more and more powerful

The institute will define its focus areas and method of work based on evaluating the work that has been done over the last six years within e-skills development.

Q What is your message to youth in SA?

Relevant education is the key to success. Young South Africans have all the power to make sure that this country succeeds. The support and resources are there for South Africa's youth to embrace and to use them profitably. There is no room for excuses for this generation. They should work hard in order to protect our country at all costs.

Q Describe yourself in 5 words

Passionate, energetic, hard-working, patriotic and innovative. 😊

Future events

The University of the Western Cape's Faculty of Economic and Management Sciences and the Western Cape e-Skills CoLab are running another **'Thought Leadership Series on the Digital Economy'**. This will be held on 21 August 2015.

The topic? 'Organisational agility in the face of digital disruption' with speaker, Mr Brian Pinnock, Head of Innovation, Internet Solutions, Dimension Data.

We have regularly been surprised by digital disruption:

- How it appears in new and unexpected areas
- How it upsets and disrupts the incumbents in industries and sectors
- How it effects change across industries, functions and business processes

Typically, four forces trigger and underpin digital disruption: cloud, mobile, social media and big data. All the signs are favourable to see an increase in digital disruption in 2015 and beyond.

Typical questions we need to respond to are:

- How do we prepare for digital disruption in our sector and/or business?
- How do we remain relevant?
- How do we recognise and capitalise on the

opportunities it offers?

- What does this mean for the way we think and do in terms of innovation?
- What are the implications for organisational practices?
- What do successful companies do?

To deliberate, share and explore this topic in depth, please join us on 21 August 2015 for the second discussion in the 2015 Thought Leadership Series on the Digital Economy.

What is The Thought Leadership Series? It is a shared platform between academia (the world of inquiry and analysis) and business (the world of work). It is a space to discuss, explore, learn and research matters relating to the digital economy. This will enhance our individual and collective ability to engage with these new challenges and opportunities.

Venue? School of Public Health, University of the Western Cape, Bellville

Time? 7.30am to 9.30am

Booking? Seats are limited so please book in advance. Email Ms Melissa Maans at mmaans@uwc.ac.za.



e-Skills for broadband

Why South Africa needs digital skills for the national roll-out of broadband

This is a world where technology makes things happen. Whether you are a rural farmer or a global business, without technology you will be left behind. Technology, in particular information and communication technology (ICT), can mean the difference between having or not having a job, a business and participating in the world.

National plans for improving South Africa's ICT capability

There are national policies in place to address South Africa's ICT capability. The National Development Plan (NDP) aims for South Africa to be a dynamic and connected information society by 2030.

The New Growth Path (the national 5-year economic plan for the country) views the knowledge economy as a driver for job creation. For there to be a knowledge economy, access to affordable high-speed broadband is a must.

The government policies and plans focus on:

- Affordable and accessible broadband
- Conditions that help investment and innovation
- Efficient public services, including e-government
- A strong national skills base
- A place where the creative industries and software industries produce content and applications that fit South Africa's needs

Understanding South Africa's broadband policy

South Africa Connect is the country's broadband policy. It has four focus areas (pillars):

Digital Readiness	This looks at how to make the country ready for broadband. It covers areas such as policies and regulations.
Digital Development	This looks at how to develop the broadband network. One of the priorities is to provide free public wifi networks to schools and clinics. These will be points of connection for citizens to access e-government and other services.
Digital Future	This looks at how to develop broadband into the future. It focuses on making broadband affordable and easy to access.
Digital Opportunity	This looks at the opportunities that exist because of broadband. It focuses on how to make sure people, organisations and businesses make use of the opportunities.

More about Digital Opportunity

It's essential to create a demand for broadband and its services. You can build infrastructure but it will only make



What is a knowledge economy?

This is an economy where growth depends on the amount and quality of available information and access to it. This is in contrast to an economy that depends on production (such as coal).

What is broadband?

Broadband means fast, always-on access to the internet.

What is e-government?

e-Government is the use of information and communication technologies (ICTs) to improve government services. It's sometimes called a 'connected government'.

a difference if people use it. Digital Opportunity looks at creating demand. A number of programmes have been outlined to make this happen:

- Developing user skills (e-literacy) so that everyone is included in society and the economy – and so that people can find and create work
- Developing e-skills for entrepreneurs
- e-Readiness programmes in schools and clinics
- Ensuring that e-skills are part of the learning curricula
- Developing e-skills programmes for high-level skills needed by business and industry
- Creating local and relevant content and applications that people want to use
- General awareness and e-literacy campaigns so that people know about the opportunities
- Making research and development (R&D) and innovation a priority

The above includes e-government. The aim is to improve the efficiency of the public sector and provide user-friendly public sector e-services.

Making the broadband plan happen

The Department of Telecommunications and Postal Services (DTPS) is currently working on rolling out the broadband policy with a national e-strategy. NEMISA through its provincial CoLabs will be working with the DTPS. They will assist with providing e-skills training:

- From 20-21 April 2015, the Eastern Cape e-Skills CoLab attended broadband planning workshops with DTPS and the EC provincial IT working group. The draft provincial

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Article continued: Why South Africa needs digital skills for the national roll-out of broadband

master plan for rolling out broadband was discussed, as well as the potential role of different stakeholders. The Eastern Cape e-Skills CoLab was given a coordinating role in the broadband skills task team.

- On 8 May 2015, the Eastern Cape e-Skills CoLab was represented in follow-up workshop with DTPS Minister, Siyabonga Cwele.
- On 17 June, NEMISA was part of a workshop on SA Connect: Digital Opportunities. This was hosted by the DTPS and the Council for Scientific and Industrial Research (CSIR). The workshop gave feedback from the provincial workshops and was preparation for continuing the national e-strategy plans. The focus was on identifying what needs to be offered at the various sites that have chosen. These sites are in provinces across the country.
- On 21 July 2015, DTPS Minister, Siyabonga Cwele, visited North West for a broadband infrastructure assessment. One of the DTPS' mandates is to ensure that ICT improves service delivery to the people. The DTPS plans for networks to reach even the small towns in the rural areas. At the same time, the government is working on becoming an e-government where the internet and ICT will assist with providing services. 😊

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 CoLab: Connected Health, based at the University of Limpopo
- Southern Gauteng/Northern Cape CoLab: e-Literacy and e-Business (knowledge economy and e-social astuteness), based at the Vaal University of Technology



e-Skills for broadband

As the government works on creating broadband networks for South Africa, NEMISA, the e-skills CoLabs and partners are working with them to provide e-skills training to create a demand for broadband and its services. These programmes have been outlined in South Africa Connect (the broadband policy), the national e-strategy and other policies. The focus is on fulfilling the National Development Plan's aim of becoming an information society by 2030.

'ICT and Agriculture: Realising the Development Dividend'

Agriculture and rural development have the potential to improve the livelihoods of communities in the Eastern Cape. Most people in the rural areas make their living from the Eastern Cape's natural resources. However, more needs to be done to increase performance in the agricultural sector.

With South Africa's drive to close the digital divide, what can ICT do to help small and emerging farmers? How can ICT be used to increase agricultural productivity, create jobs, improve market access and empower farmers and rural communities?

The Eastern Cape e-Skills CoLab and the Walter Sisulu Centre

Supporting the broadband roll-out with e-skills



Delegates at the 'ICT and Agriculture: Realising the Development Dividend' seminar in the Eastern Cape.

for Community Engagement jointly hosted a seminar on 'ICT and Agriculture: realising the development dividend'. (ECSECC is the Eastern Cape Socio Economic Consultative Council.)

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Article continued: Supporting the broadband roll-out with e-skills

The event was held on 23 March 2015 in East London to launch the ICT in Agriculture programme. Sixty delegates attended this half-day seminar. The seminar looked at two main topics and presentations:

- Closing the digital divide in support of rural enterprise and economic development - by Johan van Rensburg, Initiative Manager: ICTs for Rural Enterprise and Economic Development, CSIR Meraka Institute
- Leveraging ICT to increase productivity in the Agricultural sector and stimulate rural development – by Prof Josiah Adeyamo, Associate Professor and researcher based at the Department of Civil Engineering and Surveying, Durban University of Technology

The Eastern Cape e-Skills CoLab also presented on developing follow-up plans which include research, product development (eg mobile apps) and e-skills training.

Social media for e-government and SMMEs

From 11-15 May 2015, the KwaZulu-Natal (KZN) e-Skills

CoLab hosted 'The International Bilateral ICT Collaboration, Skills Transfer and Mentoring of Local SMMEs' event. This was held at the Durban University of Technology. The programme involved the following:

- Meeting the Council for Scientific and Industrial Research (CSIR) about using social media to support cyber safety and the localisation of skills. The CSIR is a leading scientific and technology research, development and implementation organisation.
- Partnering with Invo Tech and SmartXchange to support ICT entrepreneurs and SMMEs to grow their web business development, to build their brand and to uplift their companies. Invo Tech and SmartXchange are business incubators that provide business support to businesses in the innovation and technology environments.
- Meeting with KZN municipal managers and SALGA about how to use social media to communicate and create effective service delivery to citizens. SALGA is the South African Local Government Organisation. It represents municipalities in South Africa. 😊



Training

Developing new media skills in the creative fields

Creative new media is seen as an important area for economic development in South Africa. There is the potential for entrepreneurship, creating new jobs and developing digital skills (skills around technology). This is especially important for tackling youth unemployment.

Creating new media skills through learnerships and skills programmes

A learnership involves classroom theory and workplace experience. (Often a stipend is paid for the work done in the workplace. This is a small amount of money.) A learnership results in a complete qualification.

Learnerships are a response to having qualifications but with no experience. It is an industry complaint that new entrants into a field don't come with any experience.

A learnership at NEMISA involves 30% classroom face-to-face time and 70% workplace experience combined with learning. This means learners are still trained when at the workplace.

"Blended learning still occurs in the workplace," explains Doc Fick, Head of Department: Broadcasting at NEMISA. So while the learners are at the workplace, they are still given training. This can include modules, online presentations and assessments.

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What is creative new media?

The creative industries include everything from craft, art and design to architecture, film and music. Creative new media means the new creative fields that have come about from technology.



The KZN Film Commission has partnered with NEMISA and the KZN e-Skills CoLab to provide skills in the broadcasting environment, in particular TV production and post TV production.

Article continued: Developing new media skills in the creative fields

The Graphic Design Programme

Partners: NEMISA and the KwaZulu-Natal (KZN) e-Skills CoLab have partnered with the Moses Kotane Institute for training.

Training: They created a one-year programme that teaches graphic design skills in KZN. The 19 students are lectured on various subjects such as English, Computer Graphics, Visual Communication, and Drawing. This Graphic Design Programme ran from June 2014 to June 2015. There was a 62% pass rate.

Aim: The aim is to provide students with theoretical and practical skills in graphic design.

The Radio Production Programme

Partners: NEMISA has partnered with MICT SETA and the National Community Radio Forum (NCRF) to provide learnerships in radio production across the country. NEMISA works with the NCRF provincial hub. Students are drawn from community radio sectors.

Qualification: Students complete the one-year MICT SETA qualification Certificate in Radio Production.

Training: In KZN, NEMISA and the NCRF are working with the KZN e-Skills CoLab. The partnership is providing a one-year learnership programme for 28 KZN learners. The programme started in February 2015 and will run until November 2015.

NEMISA and the NCRF are running the same learnership model in Mpumalanga with 30 learners. There are 20 learnerships about to start in the Northern Cape.

TV and Post TV Production Programme

Partners: The KZN Film Commission has partnered with NEMISA and the KZN e-Skills CoLab to provide skills in the broadcasting environment, in particular TV production and post TV production.

Training: This is for the MICT SETA Skills Programme within

Update on NEMISA Animation studies

- NEMISA is currently training full-time students in Animation at the NEMISA campus, Johannesburg. Both the 2D Animation 3D Animation and Visual Effects diplomas run from 2013 to 2015.
- Two of the NEMISA Animation lecturers are studying their BA Honours in Digital Arts at the University of Witwatersrand.

the Further Education and Training (FET) Certificate: Film and Television Production. The learnership is a five-month programme for 40 learners. It started on 28 April 2015 and will run for four months. There are 20 learnerships for TV production and 20 for TV post production.

NEMISA is also running a full learnership programme in Gauteng. This caters for 19 students. The learners were chosen by the workplace partners. All the learners need to fit a specific profile: have South African citizenship, have a matric, be unemployed and show a keen interest in TV and post TV production.

Skills programme in film and TV

Training: NEMISA is running a skills programme in Film and Television in the Eastern Cape. This is for 50 learners. The skills programme is different from a learnership. "It is a combination of unit standards within a full qualification," says Doc Fick. "We teach modules that are streamlined to a particular skill so that the student is trained for an occupation."

Because the modules are aligned to unit standards, this provides the grounding for getting a full qualification at a later stage. Examples of the type of jobs that students will be able to do include visual editor and camera operator. 😊

NEMISA graduations were held on 18 July 2015.



NEMISA graduations

A NEMISA graduation ceremony was held on 18 July 2015 at the M1 Studio in the SABC, Johannesburg. The following number of students graduated:

- 21 in TV Production
- 17 in Broadcast Engineering
- 23 in Graphic Design (in conjunction with Damelin)
- 12 in 2D Animation (for the diploma that ran from 2012-2014)



Training

Mobile apps that create solutions to social problems – the 2015 CodeJam

The Western Cape e-Skills CoLab is running the 2015 CodeJam. The focus is on improving e-skills (digital competence) in South Africa. This year it's called: 'Digital Change Makers creating Apps that Matter'.

CodeJam 2015 focuses on developing young local talent through creating mobile applications (apps). The aim is to build human talent which includes:

- Building skills in mobile app development
- Building skills in social innovation
- Developing local mobile apps for local needs (Apps by Africa for Africa)
- Building skills to design mobile apps that address local socio-economic challenges (Apps that Matter)

What are 'digital change makers' and 'apps that matter'?

"There are real challenges in the lives of community members, small and urban farmers, and small and

medium size businesses," says Dr Leona Craffert, Director of the Western Cape e-Skills CoLab. "These need innovative solutions. Mobile apps and digital solutions can be part of this and make a difference to people's lives. That's why we call them 'Digital Change Makers' and 'Apps that Matter'."

What are the challenges?

The challenges come directly from the needs of local communities. The challenges relate to the following areas:

- SMME empowerment
- Enhancing community life
- Social media for change
- Open category

How does CodeJam 2015 work?

It runs from 3 June to 9 October 2015. Sign up has already been completed. CodeJam 2015 is now in the second phase – skilling up and ideation. This runs until 30 August 2015. There have been two android training sessions and these will run until mid-September. There will also be idea finalisation and solution development. Prizes will be given to the winning ideas. Currently 40 youths have signed up.

CodeJam creates training opportunities for Android, HTML5 and the process of social innovation. The audience is Western Cape youth that are not employed full time. They also need to be interested in:

- Developing or improving digital skills, especially in mobile apps development and social media, and creating solutions for real-life challenges
- Working in multi-disciplinary teams to develop mobile apps solution 😊



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 social innovation?

Social innovation is about new ideas (such as products and services) that meet social needs ie they are for the good of society.



Alumni profile

Meet Itumeleng Mokoena, Tutor in Animation at NEMISA

Q Who are you?

My name is Itumeleng Mokoena and I am 29 years old.

Q What work do you do now?

I am a NEMISA alumnus (graduate) and am currently working as a animation tutor at NEMISA. I teach animation practice and principles. These modules teach students how animation works and how to make their animation appealing and convincing to the viewer. This course teaches learners how to work effectively in the animation industry by introducing them to traditional paper animation before moving to computer animation or digital animation. I am also a registered assessor.

Q What did you study at NEMISA?

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Article continued: Meet Itumeleng Mokoena, Tutor in Animation at NEMISA

2D and 3D animation. I was also awarded a bursary. I graduated in 2009.

Q How did you decide what to study?

I have always been interested in film, especially animated movies. I loved drawing cartoons and started researching this career in high school. In 2004, I came to an open day at NEMISA and found out about the course. In 2007, I enrolled for the 2D and 3D animation course.

Q How did you get from your studies to where you are now?

The course equipped me with animation skills and tools. It introduced me to details of studio operation – practical, administrative and financial. It also covered topics related

to being self-employed.

Q What are your plans for the future?

My future plans include furthering my studies and starting my own multimedia production company. Animation is more than a career for me; it's like playing or a hobby. I had the privilege of studying my childhood dream career and I get to work in both animation and film industry.

Q Any advice to people who want to work in your industry?

The best advice for someone that wants to study animation is that they have to love it. It's a very demanding career and you have to commit yourself 110% in your art.



Training

Social media training for small businesses and entrepreneurs

Social media is not just about talking with friends on the internet. It plays an important part in business, as well as developing an individual's 'brand' or profile.

Businesses and individuals need to have an effective digital footprint as part of a successful communications strategy. A digital footprint is another way of saying 'the information people and organisations put online or send to others using technology'.

Social media boot camps

On the 25 February 2015, there was a one-day Social Media Boot Camp in East London. It was organised by the Eastern Cape e-Skills CoLab. The boot camp was done through the Makana Apps Factory (which is based at



One-day Social Media Boot Camp in East London for SMMEs, local government and journalism students.



What is social media?

Social media means the online communications channels that allow people to create communities, interact, collaborate and share content. These can be websites and internet/online applications.

Rhodes University). This was in partnership with Eastern Cape Information Technology Initiative (ECITI).

There were 22 delegates from SMMEs and local government, as well as Walter Sisulu University journalism students. The SMMEs included media start-ups and entrepreneurs. The focus was on how to make social media work for them through producing content to promote and enhance their business and personal lives. (SMME stands for small, micro and medium enterprises.)

Delegates learned how to craft content to effectively deliver news that grabs people's attention and gets them talking. The aim is to 'go viral'. On social media, this means content is being seen and shared by a large number of people in a short space of time.

The course was facilitated by Steve Kromberg and Michael Salzwedel, two journalists who are active in social media and digital media training.

The Social Media Boot Camp was also run in Grahamstown on the 26 February 2015 with students from the Rhodes University School of Journalism and Media Studies and community members in rural areas. 😊


Training

We live in a world of technology. Most jobs need computer skills and e-literacy. South Africa needs to be part of this connected world of technology – it's important for creating jobs and developing businesses. It ensures that more South Africans make money and contribute to the economy.

Countries across the world are using technology to grow. It's essential for South Africa, as a developing country, to also grow and to compete with other countries globally. But how do we develop technology and technology skills in South Africa? In terms of technology skills, it starts with e-literacy.


What is e-literacy?

e-Literacy or digital literacy is the starting point for knowing how to use digital technology effectively. e-Literacy is more than knowing how to use a computer. It means being able to use technology in all areas of life and work.

National rollout of e-literacy training

NEMISA and the provincial CoLabs are preparing for a national roll out. This means that e-literacy training will be offered in each CoLab province. At the moment, there are six CoLabs in Limpopo, Gauteng, Eastern Cape, KwaZulu-Natal, Western Cape and in Southern Gauteng/Northern Cape.

Currently there have been pilot projects for e-literacy training. This stage focuses on testing the software. The e-literacy programme has been changed (customised) to fit South Africa. It's also developed according to the South African Qualifications Authority (SAQA) unit standards. Unit standards are important because they are recognised levels of qualifications.

The e-literacy course has been developed so that it can be used by dyslexics and the visually impaired. While it's currently in English, the aim is to convert it into other South African languages.

The Southern Gauteng/ Northern Cape e-Skills CoLab is coordinating the national rollout. Antoinette Lombaard, Acting Director of the CoLab, says that the intention is to train 11 000 people nationally. Work is being done to run the programme online so that people can access it using the internet. It will also have a registration component so that learners can be tracked and monitored. Ms Lombaard says that they also want to add cybersecurity to the programme. **(Cybersecurity is about being safe and secure on the internet.)**

e-Literacy training for South Africa
e-Literacy training in East London.

e-Literacy training in Limpopo for health workers.

e-Literacy training pilot projects in East London and Limpopo

The Eastern Cape e-Skills CoLab ran an e-literacy training pilot in East London from January 2015 to July 2015. This was done in partnership with the Eastern Cape Development Corporation (ECDC). The result is that 18 facilitators have been trained, and training has started for 250 community members.

The Limpopo e-Skills CoLab has been running e-Literacy for health workers. Dr Fariwar Rahimi, Director of the CoLab, says that this is a pivotal component in promoting e-health (connected health) in the province and nationally. During 2015, five courses were run from April to June. This e-literacy training started at the end of 2014 and a total of 230 healthcare workers have been trained.

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Article continued: e-Literacy training for South Africa

Intel Easy Steps Programme

The Limpopo e-Skills CoLab has partnered with VexoSpark to offer Intel Easy Steps Programme training to young women in the area. This happened from June to July 2015. 184 young women were trained at the University of Limpopo campus and 50 young women at St Bede High School Laboratory, Limpopo. It is a pilot project. 😊



Intel Easy Steps Programme in Limpopo.



What is e-health/connected health?

e-Health means using ICT (information and communication technology) to assist with healthcare. This includes providing health information through technology.



Training

Technology is essential in every field and on every level

Understanding and using technology will improve people's lives. Just being able to use a computer, laptop or smartphone effectively can open up a world of opportunities.

Being able to use technology and having e-skills is not just about the basics. For people to succeed and grow, they need to be able to use technology on all levels. What does this mean? ICT (or information and communication technology) is part of every skill level, from a basic understanding of computers to being able to programme or run a technology business.

Teaching STEM to learners from rural areas

South Africa needs to make sure that it is growing all the e-skills. This will make a difference to people's lives, creating even more opportunities. Using technology (or ICT) is part of a group of skills called the STEM skills. STEM stands for science, technology, engineering and maths. Children who have a good grounding in these skills often go onto study in the science, engineering, technology, medicine and maths professions.

The KwaZulu-Natal (KZN) e-Skills CoLab has an ongoing partnership with MMI Holdings Ltd to train grade 12 learners in Maths, English and Physical Science. These students will also be mentored to pursue a career in Actuarial Studies. MMI develops projects in the areas of health, education, orphaned and vulnerable children, and people with disabilities.

This year there are 31 grade 12 learners. They were chosen from the rural and economically-deprived area of iLembe.



Training for science, technology, engineering and maths in KZN.

Their transport and food is funded so that they can focus on learning. Those students that achieve at least 80% will receive a laptop. The programme runs every Saturday. It started in March 2015 and will continue until October 2015.

"The KZN e-Skills CoLab sees this as an opportunity to introduce them to technology. 80% of these learners have never used a PC before, with just one learner having an email account," says Surendra Thakur, Director of the CoLab.

Leadership, Management and Development Programme

The KZN e-Skills CoLab has been running a Leadership, Management and Development Programme focusing on working more efficiently. It is a partnership with the Durban University of Technology (DUT). The university provides

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management training and the CoLab provides e-skills training on Web 2.0.

The programme has been rolled out to 30 DUT Executive Management. It ran from the 17 March 2015 until 7 August 2015. Delegates learn about:

- Higher education legislation and policy
- The concept of leadership
- Executing strategy
- Finance
- Organisational democracy
- Labour relations
- Web 2.0 and social media

Surendra Thakur, Director of the KZN e-Skills CoLab says that the programme broadens delegates' knowledge of ICT web applications. In a world where the internet is an essential part of communicating and generating ideas, social media allows people to interact, collaborate and create content.

Retail training in partnership with the W&R SETA

The KZN e-Skills CoLab, in partnership with W&R SETA, is providing a one-year course for people in the wholesale and retail sector. (W&R SETA is the sector education training authority – SETA – for the wholesale and retail sector.)

The qualification gives learners a basic understanding of this sector. Modules focus on the various processes, policies and procedures. It includes an e-skills component: computer literacy skills for workplace. It is an NQF level 2 qualification.

There are currently 130 learners from various retail stores. The training is done in Durban and Pietermaritzburg. The training has been running since 9 June 2014 and ended 30 April 2015.

Netiquette seminar

The KZN e-Skills CoLab gave a seminar on Netiquette to the third year and honours food nutritionist students at the Durban University of Technology. This occurred on 31 July 2015. (Netiquette means the acceptable way of using the internet ie rules for online behaviour.)

Safe Internet for Parents

The KZN e-Skills CoLab has a seminar – Safe Internet for Parents – that it has been delivering on an ongoing basis. The learners doing a course in wholesale and retail attended this seminar on 21 April 2015.



What is Web 2.0?

Web 2.0 describes the second stage of how the internet is being used. It is seen as a combination of ideas and technologies that focus on collaboration, sharing content created by users and social networking. Some of the tools and features include:

- Blogs
- Video-sharing services
- Wikis
- Social networking like Facebook

Microsoft IT Training for DUT Staff

Nine of Durban University of Technology's (DUT) administrative staff were trained on Microsoft Excel (Basic and Advanced). Three drivers were trained on Google Mapping and Flight Tracking. The purpose of this training is to give staff a basic knowledge of how to use technology in the workplace. The training was done during June and July 2015. It is an initiative of the KZN e-Skills CoLab.

End User Computing

The KZN e-Skills CoLab, in partnership with ETDP SETA (Education, Training and Development Sector Education and Training Authority), rolled out a one-year course in End User Computing to a total of 100 learners. The learners were made up of 50 educators from the Department of Education (trained in Pietermaritzburg) and 50 disabled unemployed youth from KZN (trained in Newcastle and Durban).

The End User Computing course is an NQF level 3 qualification. It gives learners a basic knowledge and understanding of computers, focusing on the various Microsoft packages. There are also modules on project management, communication and mathematics. The course started in February 2015 and will end in February 2016.

ETDP SETA National Certificate in Computer Science

Digital technologies can add value to learning in the classroom – including using them for online assessments. There is an entire theory and set of practices around teaching using digital technologies.

The KZN e-Skills CoLab has developed a course aimed at exploring the use of e-resources (computers and similar technologies) in schools. It includes curriculum planning, delivery and management. There is also a focus on how ICT needs to be integrated into the curriculum.

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The course falls under the ICT Department in the Faculty of Accounting and Informatics at the Durban University of Technology. The two-year certificate training started in February 2014. It continues into 2015 at two sites – Ugu and uThukela. The target group is 50 educators chosen by Department of Education.

Accenture 'Skills to Succeed' for youth job creation

Accenture has partnered with the KZN e-Skills CoLab and DUT for their 'Skills to Succeed' global corporate citizenship initiative. This initiative focuses on advancing employment and entrepreneurship opportunities in South Africa and other emerging economies. The CoLab will assist with implementation and roll out for training 150 candidates in Java programming. Candidates are unemployed graduates seeking jobs in the IT industry.

Skills to Succeed aims at building skills so that people can participate in and contribute to the economy. It is a youth job creation intervention. The initiative with the KZN e-Skills CoLab began 11 May 2015 and will run until January 2016. 😊



Training in 'Skills to Succeed' in KwaZulu-Natal.



Promoting e-skills

Making people aware of e-skills

We want more jobs. We want South Africa to improve. We want our lives to improve. Part of what will make this happen is to be part of the world of technology. It's now about the internet, smart phones, computers and more – and being able to use them to get ahead.

While the government rolls out infrastructure that gives more access to the internet and technology, South Africans need digital and technology skills (e-skills) to use this infrastructure. First they need to know about the possibilities. It's essential to promote e-skills and to let people know how using these skills effectively can change their lives.

The NYDA Rural Expo

NEMISA and the Eastern Cape (EC) e-Skills CoLab were involved in the National Youth Development Agency (NYDA) Rural Expo. They took part in the exhibition and the EC e-Skills CoLab gave a presentation on what e-skills can do for people.

"The focus was on career guidance for rural school children," says Lorna van der Merwe, Director of the EC e-Skills CoLab. The CoLab presentation included a live performance of an original song 'Hlakanipha, Sebenzisa iComputer' (Be Smart, Use a Computer). For the hundreds of youths in attendance, this song became an instant hit. The NYDA Expo ran from 26 to 27 March 2015 in Mthatha.



Learners, their parents and teachers at the National Youth Development Agency Rural Expo.



The NEMISA stand at the National Youth Development Agency Rural Expo.

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DTPS Youth Month Commemoration events

The Department of Telecommunications and Postal Service (DTPS) held a number of events for Youth Month. These were held in commemoration of the 39th anniversary of June 16th, 1976, the Soweto student uprising:

- On 26 June 2015, the DTPS held a **Youth Month Commemoration event in Harding**, KwaZulu-Natal. The activities included the launch of internet connectivity at Mbusi High School and a commemorative walk. The DTPS Minister, Siyabonga Cwele, gave the keynote address. State-owned enterprises and the ICT sector took part in the exhibition to showcase their services and programmes that benefit young people. The audience included grade 12 learners and community members. The KZN e-Skills CoLab spoke on internet awareness. NEMISA and the KZN e-Skills CoLab were part of the exhibition promoting e-skills courses.
- On 13 June 2015, there was a **Youth Day celebration at Mphemba High School in Nkandla, KZN**. This was a joint event with the office of the Deputy Minister, Prof Hlengiwe Mkhize, and the offices of the Deputy Minister of the Department of Trade and Industry, Mzwandile Masina, and the Deputy Minister of the Department of Monitoring and Evaluation in the Presidency, Buti Manamela. NEMISA and the KZN e-Skills CoLab took part in the exhibition, promoting e-skills courses. The DTPS Deputy Minister spoke about how the youth will move South Africa forward, and that it's important to focus on rural youth skills so that they are included in the economy. She spoke on how the youth can use

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Participants at the DTPS Youth Month Commemoration event in Harding, KwaZulu-Natal.



NEMISA stand at the DTPS Youth Month Commemoration event in Harding, KwaZulu-Natal.



South African Communications Forum ICT Awards

The Deputy Minister of the Department of Telecommunications and Postal Services attended the media launch of the South African Communications Forum ICT Awards on 22 July 2015.

In her speech, she viewed the awards as highlighting "the great work that companies and individuals have put into ensuring the growth and success of the Information and communications technology (ICT) sector".

She also noted that ICT contributed R94 715 million (2.9%) to South Africa's gross domestic product and that it is a game changer. She said that South Africa's broadband policy, South Africa Connect, outlines a number of activities to improve broadband in South Africa.

One of the pillars –Digital Opportunity – focuses on getting the benefit out of broadband infrastructure through "skills, research and development, innovation, entrepreneurship and relevant content and applications".

Article continued: Making people aware of e-skills

ICTs to face some of today's challenges, such as unemployment. This not only includes access to ICT infrastructure but through e-skills.

The 4th Government CIO Summit

NEMISA exhibited at the 4th Government CIO Summit and attended the proceedings. The summit ran from 30 March 2015 until the 1 April 2015 in Gauteng.

The CIO Summit is a strategic GITO Council event held annually. (GITO stands for government IT officers.) The summit deals with specific issues that impact on the functions of GITO Council members. The theme of the summit was 'An efficient effective development-oriented public service'. The focus was on ICT is an important tool for improving service delivery. Topics discussed included the government-wide ICT strategy, the e-government strategy and ICT trends such as making services more accessible.

NEMISA showcased the National Digital Repository at this event. The National Digital Repository (NDR) is a youth-based



NEMISA stand at the DTPS Youth Month Commemoration event in Harding, KwaZulu-Natal.

project that collects, digitises and promotes South African heritage as seen by its youth. More information can be found at www.ndr.org.za. 😊



The DTPS Deputy Minister, Prof Hlengiwe Mkhize, and other guests at the Youth Day celebration at Mphemba High School in Nkandla, KwaZulu-Natal.

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