

Free State 4IR Summit- 28 November 2019		
Time	Activity	Presenter/Speaker
07:00 - 08:00	Registration	
08:00 - 08:05	Opening National Anthem	Mr Kopung Raikontsane Director-General of the Free State Province
08:05 - 08:15	Welcome remarks	Hon. Olly Mlameli Executive Mayor: Mangaung Metro Municipality
08:15 - 08:25	Purpose of the Summit	Hon Dr Tate Makgoe MEC: Education Free State
08:25 - 08:40	4IR landscape in the Free State	Prof Henk de Jager Vice-Chancellor and Principal: Central University of Free State
08:40 - 08:55	Centre for Rapid Prototyping and Manufacturing: Changing lives and changing faces	Prof Deon de Beer Central University of Technology
08:55 - 09:10	South Africa's Readiness within the Fourth Industrial Revolution (4IR)	Prof Chris Adendorff Commissioner: Presidential Commission on the 4th Industrial Revolution
09:10 - 09:25	Introduction of the Premier	Hon. Gadija Brown MEC: Finance Free State
09:25 - 09:45	Address by the Premier of the Province	Hon. Sisi Ntombela Premier of the the Free State Province
09:45 - 09:50	Introduction of the Minister	
09:50 - 10:10	Keynote address by the Minister of Communications and Digital Technologies	Hon Stella Ndabeni Abrahams Minister of Communications and Digital Technologies
10:10 - 10:20	Vote of thanks and opening of exhibitions	Mr Kopung Raikontsane Director-General of the Free State Province
10:20 - 11:00	Tea Break/Exhibitions	
11:00 - 13:00	<i>Breakaway Session 1</i> Theme: Future of Mining and Circular Economy	<i>Breakaway Session 2</i> Theme: Harnessing a Culture of Innovation in the 4IR Era
	Lead Speaker: Prof Seeram Ramakrishna- National University of Singapore Nexus of 4IR Technologies and Circular Economy	Lead Speaker: Ms Sandiso Sabisi- Cooi 4IR Innovation Studio Citizen of the Future
	Mr Gao Chenlong- Big Paver Vanadium Flow Battery Technology	Mr Lesetja Mokonyama Machines that talk and do: When will the future arrive for small micro enterprises (SME's) in rural areas? The case of Moeding Phuthaditjhaba
	Mr Neale Baartjes- Eco Partners Increasing Investment Attractiveness of Junior Mines Through the Adoption of Artificial Intelligence	Dr. Deidre Van Rooyen- University of the Free State Social innovation through digital storytelling: For the Common Good
	Mr Thami Vumendleni- Iziko Capital E-waste and Circular Economy	Mr. Thabang Mokoka- Free State Provincial Government A 3D Printing Technology Route-Map for Creative Industry Development: The Case of Free State Province Dr Paul Kaniuki- University of Kwazulu-Natal Digital inter-connectedness and associated cybersecurity risks: perspectives of small scale cross border traders in Southern Africa
	Stefano Marani - Renergen	
12:00 - 13:00	Lunch and exhibitions	
13:00 - 14:00	<i>Breakaway Session 3</i> Theme: Agriculture and Agro-allied Industries in the 4IR era	<i>Breakaway Session 4</i> Theme: Youth and the Digital Economy
	Lead Speaker: Mr. Jaco van Dyk - John Deere John Deere's Technology in Agriculture	Lead Speaker: Ms Leah Molatseli- Lenoma Legal Innovation in Law: How Access to Justice through Legal Technology can help The Free State Economy
	Dr. Moeketsi Hlalele- Central University of Technology Big data: A critical path to uncover project risks and new opportunities	Ms Nneile Santos- 3_dimo Africa's Technology Emergence Through the Lens of its Youth
	Prof. Muthoni Masinde- Central University of Technology Mkulima Platform: An inclusive business platform ecosystem that integrates African smallholders into agricultural value chains	Ms Seadimo Tiale Allan Gray Orbis Foundation
	Prof. Carlu van Der Westhuizen- Central University of Technology Apps in Agriculture	Mr Tokollogo Phetla - Christopher Africa Artificial Intelligence in the Public Sector
	Prof. Babu Sena Paul - Institute of Intelligent Systems (University of Johannesburg) Impact of 4IR on Agriculture	Dr. Edem Agbobli- Central University of Technology Empowering women entrepreneurs through creativity and innovation for competitiveness and sustainability
	<i>Breakaway Session</i> Theme: Agriculture and Agro-allied Industries in the 4IR era	Dr Leon Rolls- Progressive Blacks in ICT Creating a Culture of Innovation
16:30- 16:35	Closure	

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08:00 - 08:30	Summary of plenary	Plenary facilitators
08:30 -08:40	Statement of support University of the Free State	Prof. Francis Petersen Vice Chancellor and Principal: University of the Free State
08:45-11:00	<i>Breakaway Session 5</i> Theme: Construction, Manufacturing and Creative Industries Lead Speaker: Mr Steve Apps- Huawei	<i>Breakaway Session 6</i> Theme: Education and Skills Development Lead Speaker: Prof. Saurabh Sinha-University of Johannesburg Higher Education Leadership in the Era of the Fourth Industrial Revolution
	Mr. Fredrick Mulinge Mwanja- Central University of Technology How 3d and 4d manufacturing technologies are driving	Mr Zoran Gordic- Positivo Technologia Education 4.0- a generation of inventors
	Manufacturing and how virtual manufacturing has helped best-in-class companies to succeed where others have Mr. Rangith Kuriakose- Central University of Technology	Ms. Naledi Xalisa- University of the Free State Reimagining the influence of the fourth industrial revolution and its impact on curriculum practice for contemporary postgraduate studies
	An Implementation Strategy for a SMART Water Monitoring System Using Internet of Things within the Industry 4.0 Ms Jeanne Coetzer- Central University of Technology	Dr. Pitso Kheza - Goldfields TVET College A Multicultural TVET College's Realignment of the Graduate Attributes for the 4th Industrial Revolution
	The importance of Human Technology Interaction in the Fourth Industrial Revolution for Collaborative decision Mr George Mollo- Central University of Technology	Prof Muthoni Masinde- Central University of Technology Transforming South Africa's Universities of Technology through the 4th Industrial Revolution
	Developing a framework for deploying unmanned aerial vehicles (UAVs) to improve construction safety management	Dr Abiodun Alao- University of Johannesburg Use of ICTs for improving employability for sustainable development of youths in South Africa
	Mr Riaan Bezuidenhout- University of the Free State Improving the energy efficiency of Bitcoin mining	Mr Shaun Peens- Central University of Technology Higher education institutions' need to initiate change on the further education & training accounting curriculum: implication for educators' social behavior in the 4IR
11:00 -11:25	Tea break and exhibitions	
11:30-13:25	<i>Breakaway Session 7</i> Theme: Contemporary Media Lead Speaker Mr Nkopane Maphiri Community media in the 4IR Facilitator	<i>Breakaway Session 8</i> Theme: Smart Sustainable Cities and Communities Lead Speaker: Mr Asif Valley- Microsoft South Africa Industry 4.0- Digital Skills Facilitator
	Faiza Abrahams - Smith Institute for the Advancement of Journalism	Dr. Elisha Markus - Central University of Technology Smart Cities and Spectrum Vulnerabilities in Long Range Unlicensed Communication Bands
	Martin Vilakazi - Managing Director Radio 101 Community Media Diversity in 4IR era	Ms. Lindelwa Sinxadi- Central University of Technology Facilitating Community Participation through Crowdsourcing in Urban Planning Processes: An Exploratory study
	Patrick Tsolo- Co-founder of Motheo FM and founder of Free State Online FM The role of online radio station in the Forth Industrial	Ms. Lindelwa Sinxadi- Central University of Technology Review of the use of an Unnamed Aerial Vehicle to monitor open urban spaces in Mangaung
	Ms Mags Shivanda- Founder and Director of Digital Shero Revenue opportunities for community media in this 4RI era	Prof. James Maina- University of Pretoria Smart Transportation
	Mr Nkululeko "Legend" Manqele Founder and CEO of The BarLeader Group	Mr Ditihaba Selemela How Technology Can Drive Citie
		Ms Nocebo Bucibo PhD Candidate at the University of the Witwatersrand in Town and Urban Planning. Photographic and Humanities Point of Reference
Mrs Charlaine Baatjies- University of South Africa Maximise confidence in infrastructure development decisions using environmental big data		
Ms. Tholwana Lebona- Central University of Technology Towards a Semantic Approach to Data Integration and Interoperability in Heterogeneous Internet of Things - Environmental Based Monitoring Infrastructure		
13:30 -14:30	Lunch and exhibitions	
14:35 -16:00	<i>Breakaway Session 9</i> Theme: The Road to Digital Healthcare Lead Speaker: Mr Vuyani Jarana	<i>Breakaway Session 10</i> Theme: Reimagining Tourism in the Free State Lead Speaker: Mr Thabang Selemela- DESTEA
	Ms. Nthabiseng Nhlapo - Central University of Technology Enhancement of tissue attachment to titanium implants using nanoscale surface modification	Ms Mpho Mgemane - Special Economic Zone How 4IR technologies can play a role in the implementation of the Free State Special Economic Zone strategy
	Ms Boitumelo Molongoana Telemedicine: The Case of the PDU in Mangaung	Dr. Rosemary Matikiti-Manyevere - Central University of Technology Fourth Industrial Revolution (4IR): Is it a threat or an opportunity for

	<p>Dr. Tafirenyika Mafugu - University of Free State Challenges Encountered in the National School Nutrition Programme</p>	<p>the tourism industry?</p>
	<p>Dr Ntombi Mutshekwané Marketing Executive, Meditech SA</p>	<p>Dr Mark Nasila- First National Bank FNB Innovative Solutions in line with 4IR Developments</p>
16:00:16:30	<p>Closing plenary for reflections and vote of thanks</p>	<p>Prof Alfred Ngowi - Central University of Technology</p>