The possibilities for the PSET CLOUD: a review of local and international 4IR developments that can promote and/or limit the PSET CLOUD in South Africa Prof Saurabh Sinha, PhD (Eng), Pr Eng

UNIVERSITY

JOHANNESBURG

1 Mar. 2022

Agenda	
(1)	Industrial Revolutions
	Fourth Industrial Revolution
(2)	Skills revolution
(3)	CLOUD Computing
(4)	Concluding remarks



(1) Industrial Revolutions

Industrial revolutions throughout history

- Steam, water, mechanical production equipment
- II Division of labour, electricity, mass production
- III Electronics, IT, automated production
- IV Cyber-physical systems
- V Human element

Digital Revolution

Simply: Human-machine "symbiosis"



Acknowledgements: The concept of this slide is textually captured in Friedman's book; the UJ component is superposed to illustrate our catalytic initiative for the Fourth Industrial Revolution (4IR). The second image (the mind) is obtained through a creative commons (CC) license and can therefore be re-distributed. The image displays an EEG waveform – as generated by the human brain.

(2) Skills revolution

(2.1) Multiple PSET avenues

(2.2) Traditional avenues – universities, universities of technologies, etc

(2.3) Unconventional and online learning

(2.4) Combination thereof.



(3) CLOUD Computing

(3.1) Deployment: Public, Private and Hybrid

(3.2) Service:

SaaS Example (current phase): PSET Cloud

laaS

PaaS

Combination thereof

(3.3) Providers:

AWS, Azure, GCP, Alibaba, IBM



(4) Concluding remarks

(4.1) Cloud of "Clouds" (referring to social media)

(4.2) For the programmers, managing "Scope Creep"

(4.3) For all, skills revolution – Cloud (and Edge) Computing

(4.4) While you're learning, partner with others.



https://tinyurl.com/UJ4IRleader



African Insights 2020

Beginner Self Paced More than 8hrs

09-11-2020

View: | 25 | 50 | All



African Insights 2021

Beginner Self Paced More than 8hrs

17-05-2021

Showing all 3 results



Artificial Intelligence in the 4IR

Beginner Self Paced

More than 8hrs

03-11-2020

