



department of communications and digital technologies

PROGRESS UPDATE OF PC4IR STRATEGIC IMPLEMENTATION PLAN

February 2022

A leader in enabling a connected and digitally transformed South Africa!

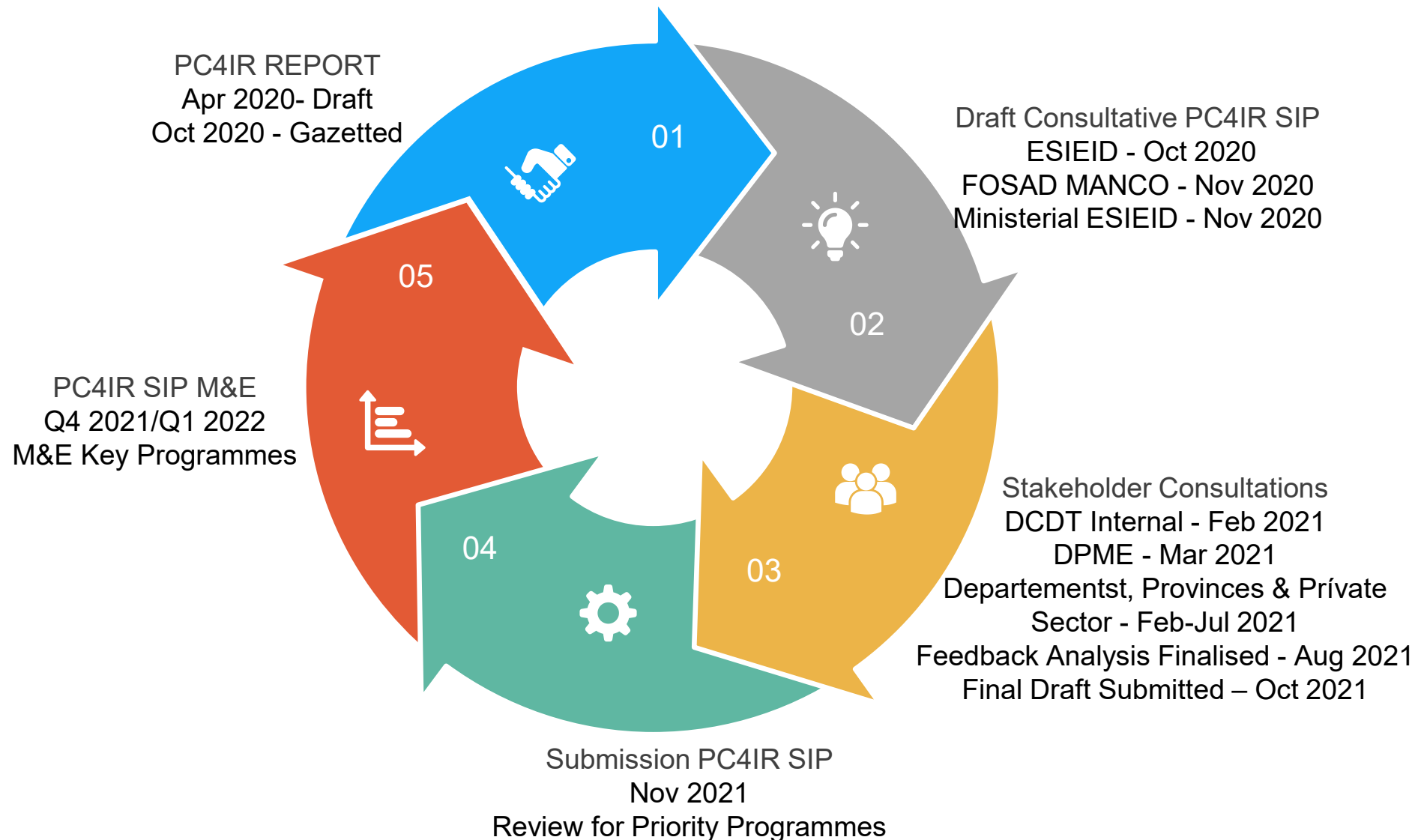


Background

- *‘The 4th Industrial Revolution is an era where people are using smart, connected and converged Cyber, Physical and Biological systems and smart business models to define and reshape the social, economic and political spheres.’ (PC4IR, 2020).*
- The convergence of these technologies brings about fundamental disruptions to our world and will have a crosscutting impact on all aspects of humanity. The President of the Republic of South Africa, his Excellency Cyril Ramaphosa, moved for South Africa not to be left behind in this global 4IR race.
- To this extent; the President established the Presidential Commission on the Fourth Industrial Revolution (PC4IR), Cabinet approved the 30 January 2019, further announced in State of Nation Address (SONA) and with operational support that will be provided.



PROGRESS TO DATE





PC4IR SIP PURPOSE

- Guide South Africa in identifying potential investment areas and opportunities towards ensuring that the country adequately responds to the fourth industrial revolution.
- Provide a model for alignment that all spheres of government can work with towards 4IR implementation
- To unify all government technological initiatives to drive digital transformation and position South Africa take advantage of the socio-economic opportunities presented by 4IR.
- Assist all spheres of the public and private sectors to identify areas of collaboration and cooperation towards a 4IR-enabled South Africa.
- Establish South Africa's 4IR monitoring and evaluation framework to facilitate inclusivity that has an impact on society and to assist in the coordination of technological initiatives.



PC4IR SIP APPROACH

- Establish an integrated, time-framed and actionable 4IR path for South Africa;
- Create a criterion to identify existing and future 4IR programmes across different economic sectors and public institutions;
- Identify the challenges within the high growth-potential economic sectors, public institutions and propose 4IR technological solutions that holds the potential to address these challenges;
- Outline a collaborative structure for stakeholders to successfully deliver 4IR programmes;
- Develop an approach for 4IR awareness and engagement to ensure the PC4IR SIP programmes are strategically and effectively communicated, coordinated, monitored, and evaluated;
- Align the PC4IR SIP with South Africa's existing key strategic developmental plans, primarily the NDP and the MSTF 2019–2024.



METHODOLOGY

Programme / Project: A programme or project needs to be identified first as an intervention under the PC4IR SIP

Strategic Position/s: 4IR Enabling and Sustainability Precursors, Digital Infrastructure, Human Capital 4.0, Digitisation, Application of 4IR Technologies Private Sector, Innovation, Commercialisation and Internationalisation.

Status: Each programme's status will be determined as being:

Operational = these are existing programmes,

Advance = programmes that are almost live or policies that are on their final stage before implementation,

On-going = process has started but not yet implemented/operational,

Not started = programmes here will be those that are not started but critical.

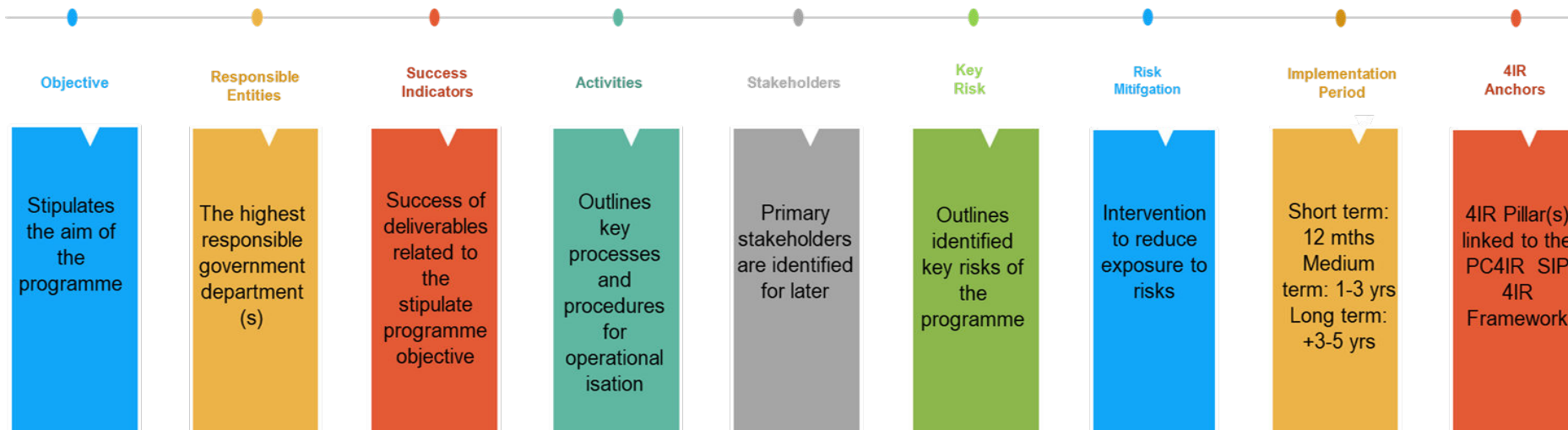
Futuristic = not started will be beneficial for the country but with low priority.

PC4IR Recommendation: Specifies the PC4IR Report recommendation linked to the programme.

Impact: estimated number of individuals that the programme / project plan to positively impact directly either economically or socially

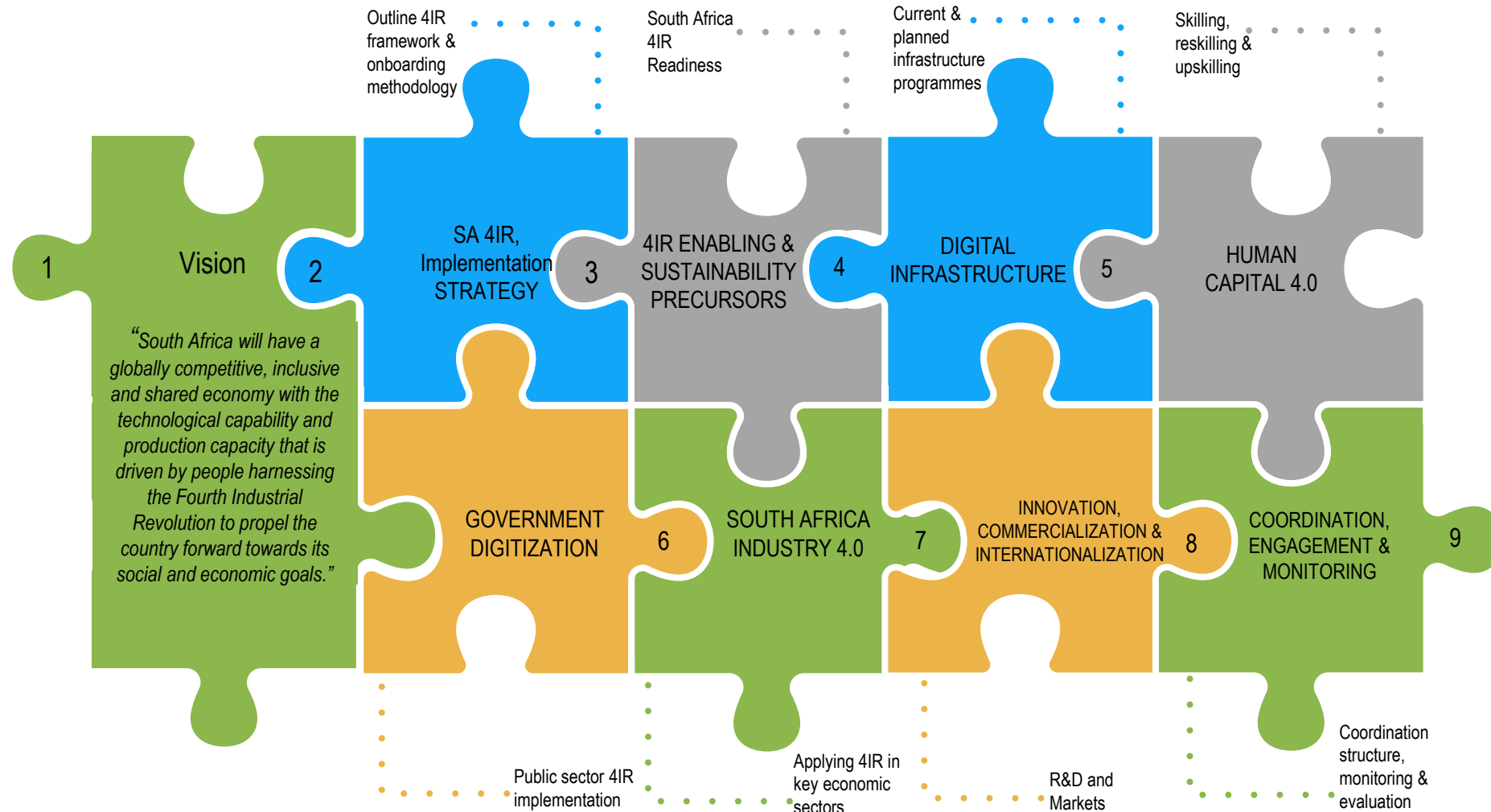
Project value: project investment/budget value

Identified Beneficiaries: the identified beneficiaries for the programme of project



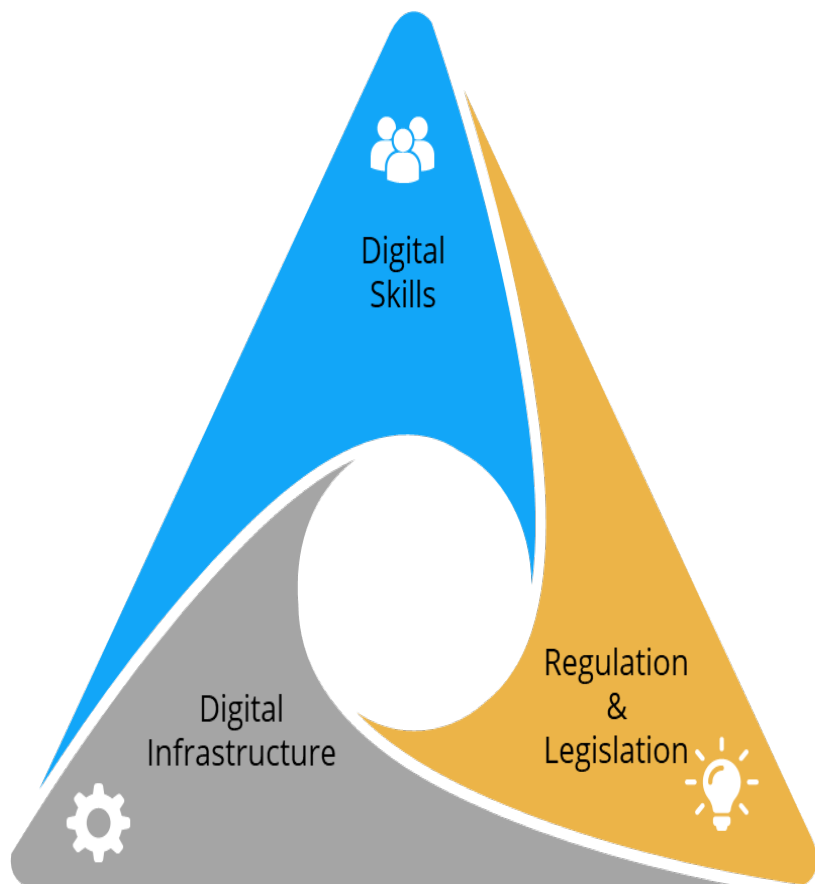


PC4IR SIP STRATEGY PRIORITIES





PRECURSOR SUMMARY



Digital Skills

Focus on the skilling across all groups of the South African population.

Regulation & Legislation

Review and amendment accompanying regulations, policies and laws to produce an enabling environment for 4IR.

Digital Infrastructure

Affordable, accessible, and reliable infrastructure is the foundation to achieve an inclusive 4IR-enabled South Africa.



PC4IR KEY RECOMMENDATIONS WITH ALIGNED DCDT PRIORITY PROGRAMMES



- 1 Investment in human capital;
- 2 The establishment of an artificial intelligence (AI) Institute;
- 3 The establishment of a platform for advanced manufacturing;
- 4 To secure and avail data to enable innovation;
- 5 Incentivise future industries, platforms and applications of 4IR technologies;
- 6 Build 4IR infrastructure;
- 7 The review and amendment (or create) policy and legislation;
- 8 Establish 4IR Strategic Implementation Coordination Council

- The National Digital and Future Skills Strategy; Align with Skills for Jobs Initiative; Device repairs.
- AI Institute TOR finalised Launch Targeted Q1 2022/2023; DCDT lead development of the AI Blueprint for Africa, Africa 4IR Strategy and SADC BigData Framework .
- Digitech Portal to profile local innovative products.
- Accelerating the Digital Infrastructure : Rapid deployment, Broadband connectivity, Cloud Infrastructure, Obligations.
- Accelerating Spectrum Policy: 5G and beyond, Re-farming 2g &3G, BDM, Manufacturing Spectrum, Services Spectrum.
- Agile Policy Review : Digital Transformation Policy replace the ECA, Gov 5.0 Policy, Future of Broadcasting,
- Stimulate Local Manufacturing : focus on Devices, Promoted Digital products, Focus on Innovation, Leverage demand through initiative such as accessible devices for learners.

