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Presentation

Sharing country experiences:

Digitalization and artificial intelligence in creative services

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South Africa

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Rushed revolution or holy algorithmic grail of creative future?

The initial effect of artificial intelligence on South Africa's creative practitioners, companies and cultural context.

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Dune

AI: A time of tensions

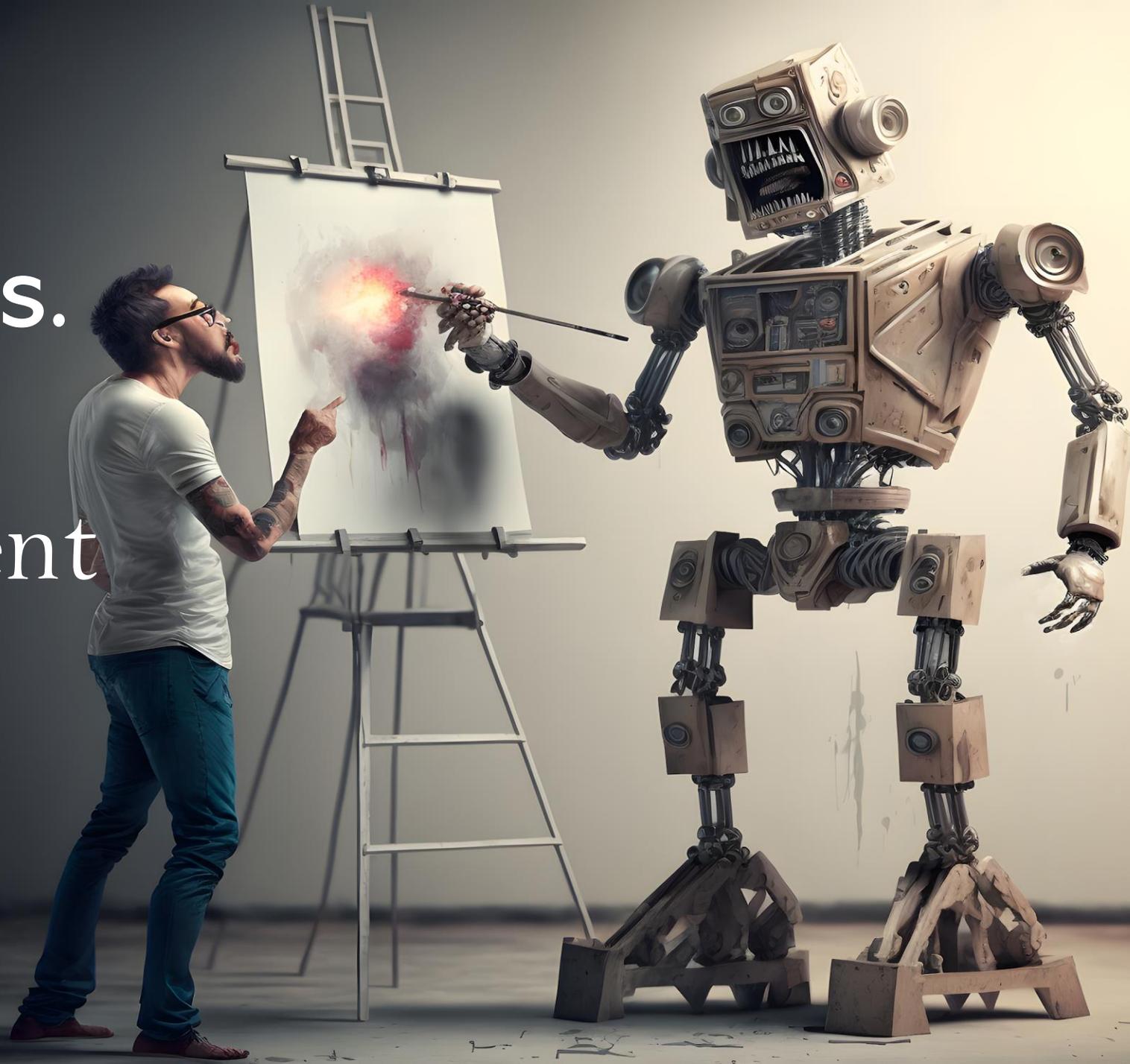
(agency) Power & Policy (regulation)



Creativity vs. The Machine



Ethical
caution vs.
speed of
deployment





Artificial Intelligence: Rushed revolution or the holy grail of a creative future?

What do you think? We're conducting a quick survey of AI's impact on South Africa's creative sector. Will you help the **South African Cultural Observatory** by telling us how you've been impacted so far? *(We promise no robots were harmed during the production of this survey 😊)*

Start

Listen to the users Methodology

Big picture

Views	Starts	Submissions	Completion rate	Time to complete
755	330	157	47.6%	17:27



AnimationSA's AI-driven transformation

The industry association for Animation, VFX & Gaming professionals

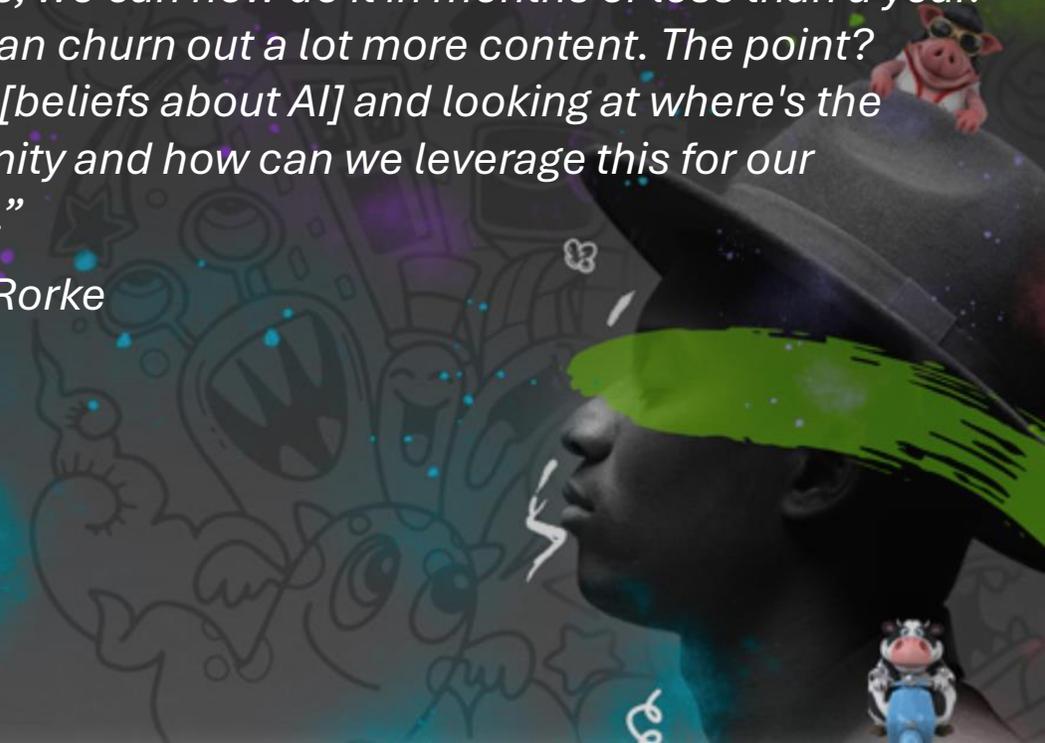
Join Animation SA today and promote your work, access resources and gain member benefits.

[Sign up today!](#)

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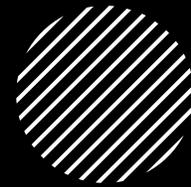
“The incubator became another sort of solution and risk mitigator where we created this inverted value chain of bringing everything at the end of the value chain into development. And instead of three-year production pipelines, we can now do it in months or less than a year. So, we can churn out a lot more content. The point? Flipping [beliefs about AI] and looking at where's the opportunity and how can we leverage this for our benefits.”

- Isabel Rorke





**Chocolate
Tribe**



- Rapid ideation and concept art
- Rotoscoping
- Content generation
- Impact on work and training

“A lot of the times, [in the industry and] even in our company, how we would integrate junior staff members, interns, women (as our industry is still quite heavily male dominated), people of colour, people who would never have thought to come into this industry – was through roles like admin, rotoscoping and learning the pipeline. All of that is going away. So [the AI issue] has got a real in terms of how we find new ways as employees to integrate people who would not ordinarily have been in this space due to a myriad of reasons.” –

Nosipho Maketo-van den Bragt, CEO/founder of Chocolate Tribe Animation Studio

Chocolate Tribe: An animation case study

- *“We are definitely in the future... With the advent of AI, a lot of the drudge work, the repetitive work, we are seeing it go away because there are now new tools that you can use to take away that type of work” –*

- Nosipho Maketo-van den Bragt, CEO/founder of Chocolate Tribe Animation Studio



Digitalization and AI in creative services

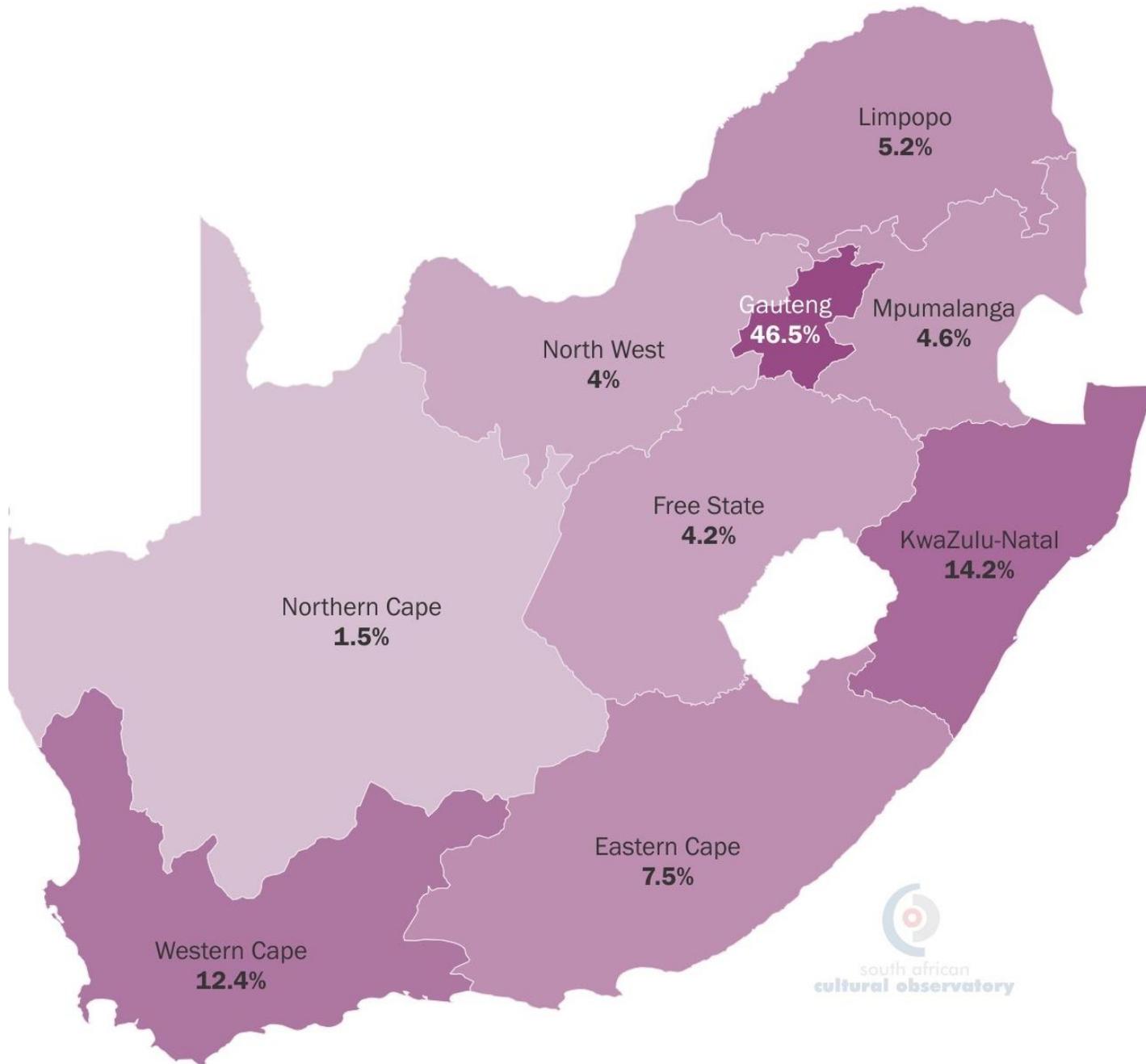
- How SA is leveraging digitalization and AI to enhance the competitiveness of creatives?
- What strategies and policies does SA implement to overcome any related challenges?



Table 8: South Africa's trade in services sectors relevant for cultural services trade 2018–2020

Services trade in R billions		2018	2019	2020
Personal travel services	Exports	108.65	111.25	37.87
	Imports	32.38	33.64	10.19
	Balance	76.26	77.61	27.68
Charges for the use of Intellectual property	Exports	2.42	2.18	2.10
	Imports	20.28	19.60	19.65
	Balance	-17.86	-17.42	-17.57
Telecomms, computer & information services	Exports	8.43	10.00	11.70
	Imports	30.13	36.22	42.56
	Balance	-21.70	-26.23	-30.86
Advertising & market research services	Exports	3.34	3.53	3.06
	Imports	3.84	4.21	4.17
	Balance	-0.50	-0.68	-1.11
Architectural, engineering & other technical services	Exports	9.60	6.68	7.63
	Imports	11.35	13.59	11.30
	Balance	-1.76	-6.91	-3.67
Personal, cultural & recreational services, of which:	Exports	5.33	5.72	3.46
	Imports	1.27	2.24	2.04
	Balance	4.06	3.48	1.42
Audio-visual & related services	Exports	3.06	3.18	2.36
	Imports	0.39	0.51	0.45
	Balance	2.67	2.67	1.91
Other personal, cultural & recreational services	Exports	0.24	0.26	0.27
	Imports	0.06	0.10	0.02
	Balance	0.18	0.16	0.25
Total services	Exports	225.19	229 706	139 658
	Imports	224.69	238 369	184 594
	Balance	0.5	-8.66	-44 936

Source: Authors' computations from SARB, 2021, and ITC, UNCTAD and WTP, 2021



Geographic spread of CCI in SA

Design and creative services

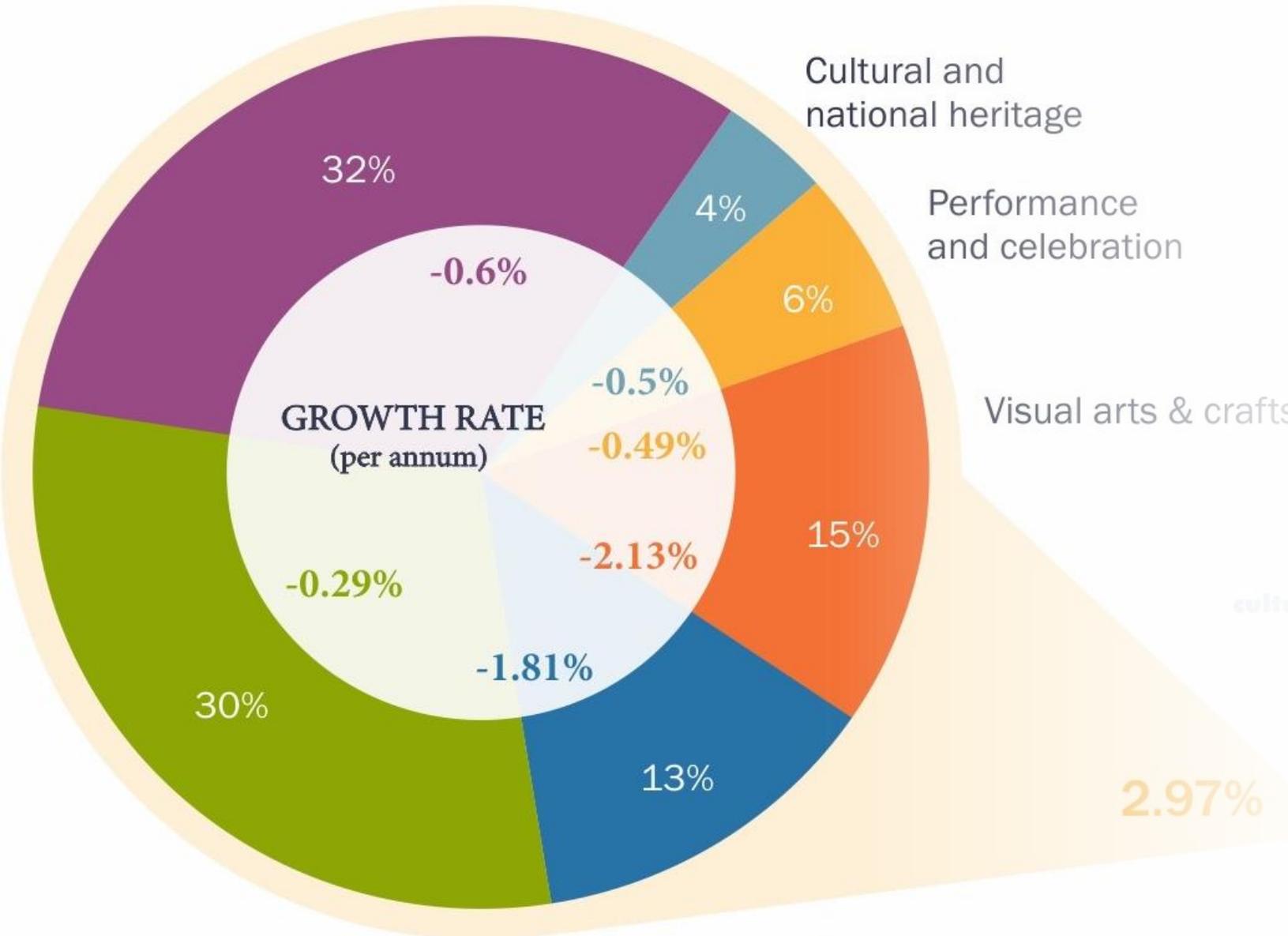
Cultural and national heritage

Performance and celebration

Visual arts & crafts

Books & press

Audiovisual and interactive media

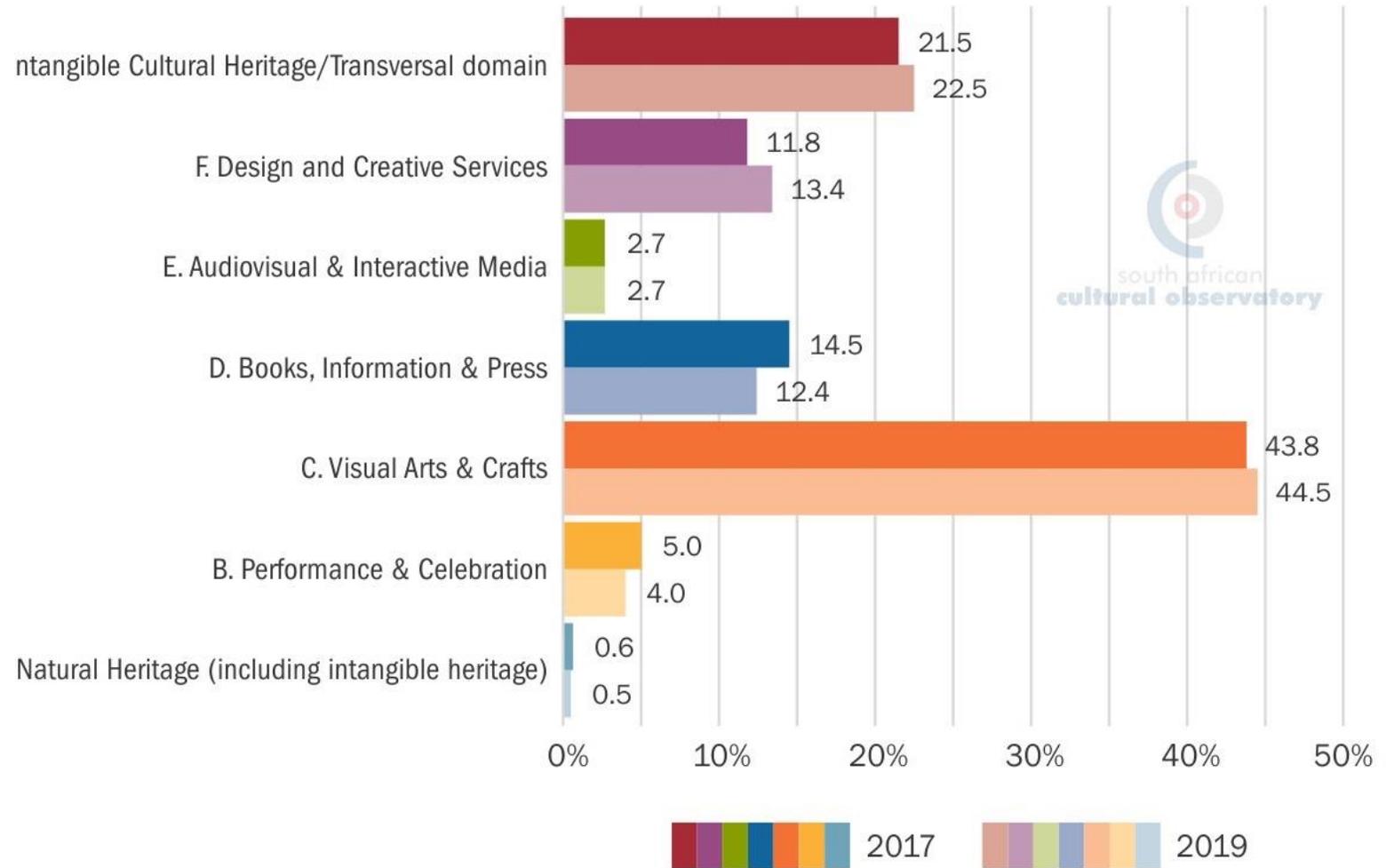
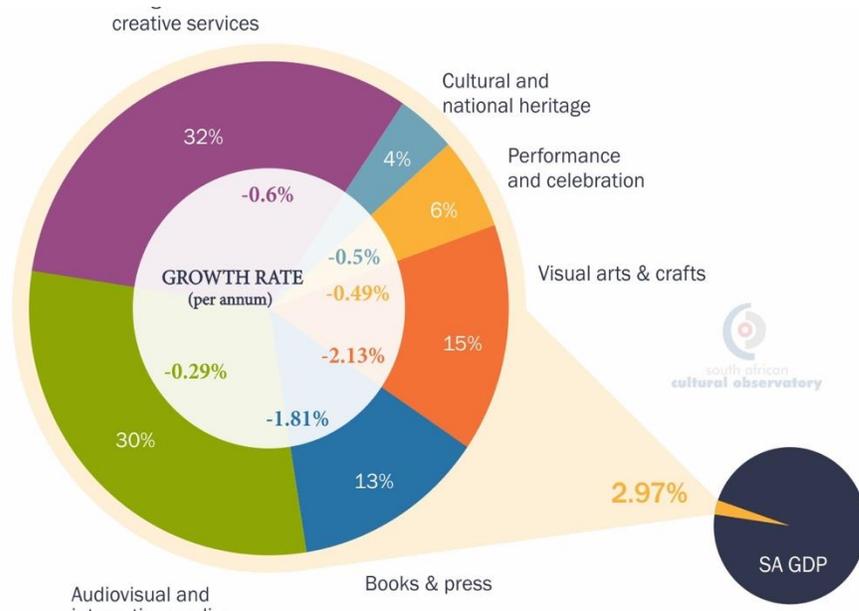


CCIs in South African GDP contribution

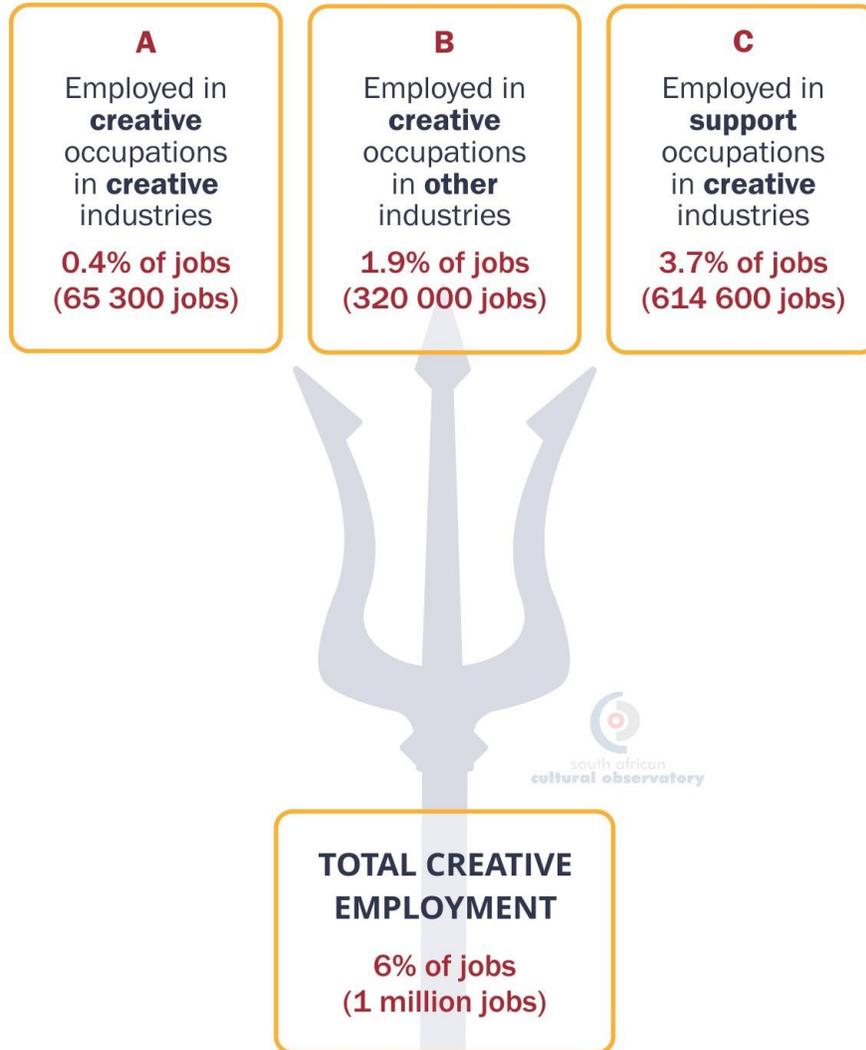
2.97%

On par with agriculture

Employment by domain



CCI impact on employment



6%
of all jobs in South Africa

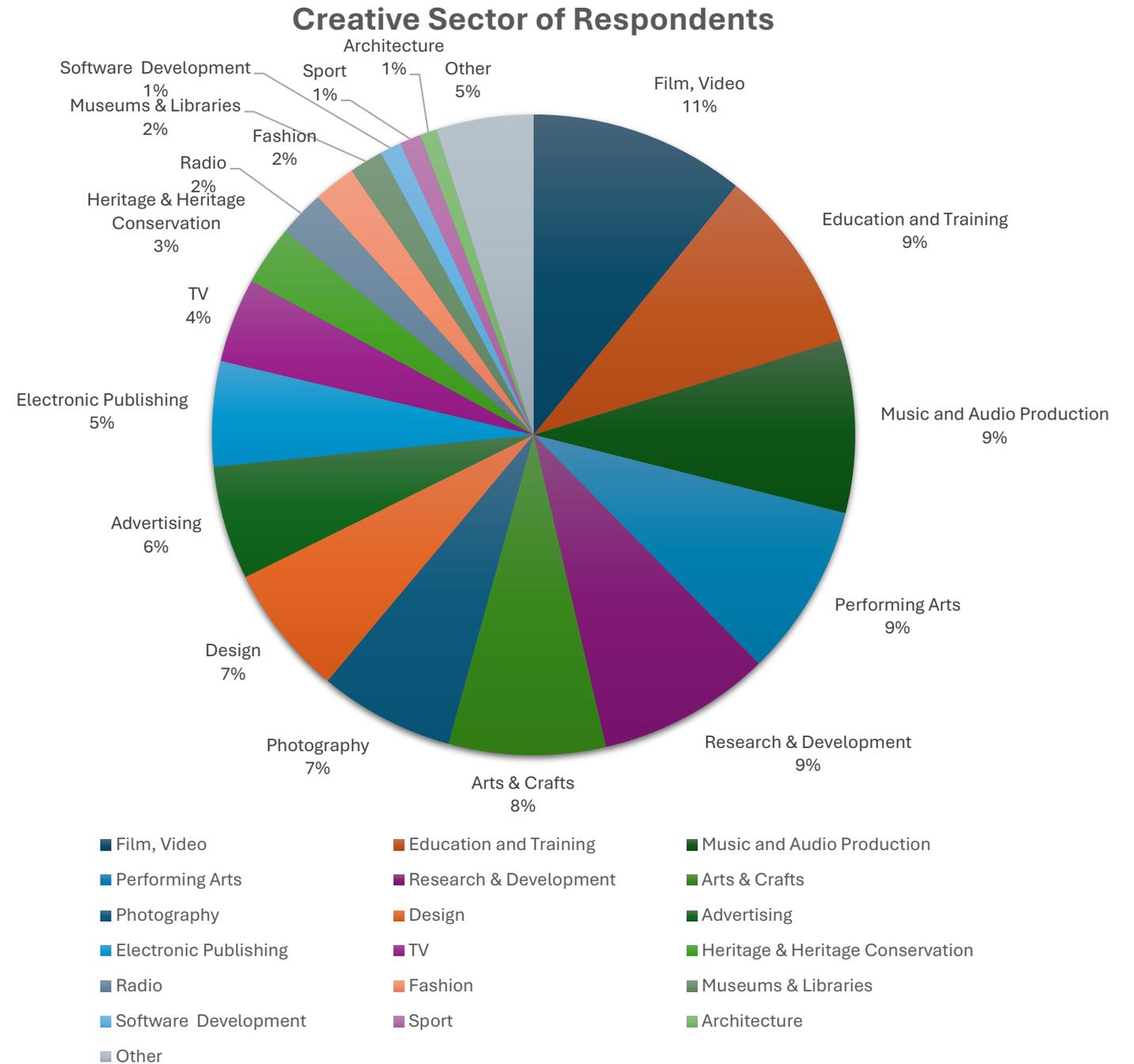
just over
1 million jobs

Up from 2017: 5.9% or 965 000 jobs

What did we find?

Research survey highlights

Who took our survey?

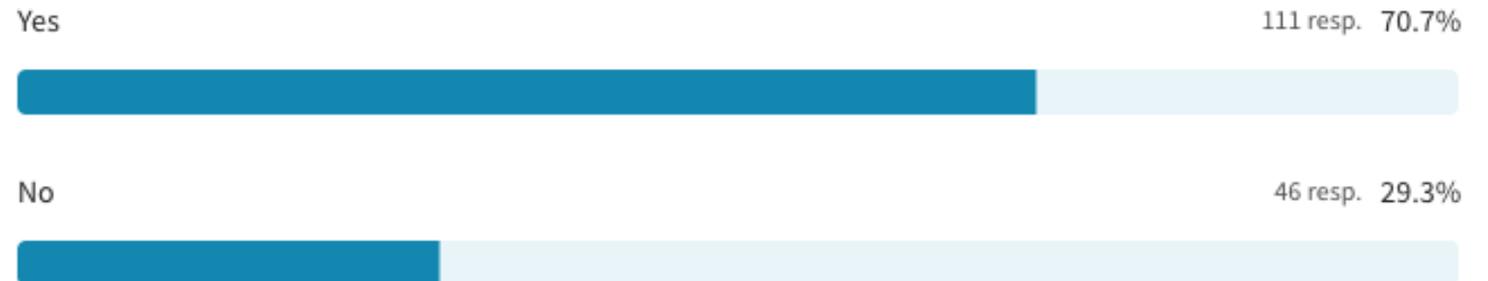


Most
creatives
surveyed
had used AI

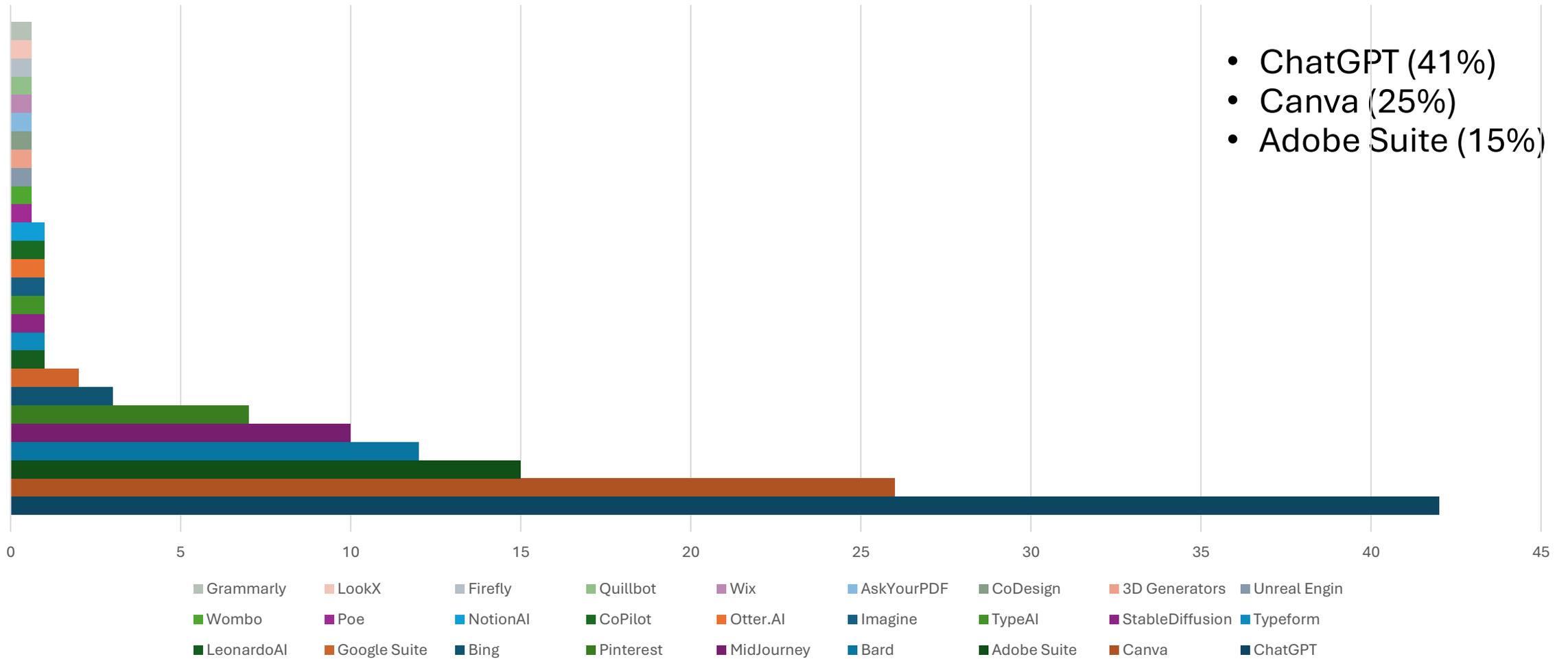


Have you personally used AI tools or software in **your creative work or process**

157 out of 157 answered



AI Tools & Software



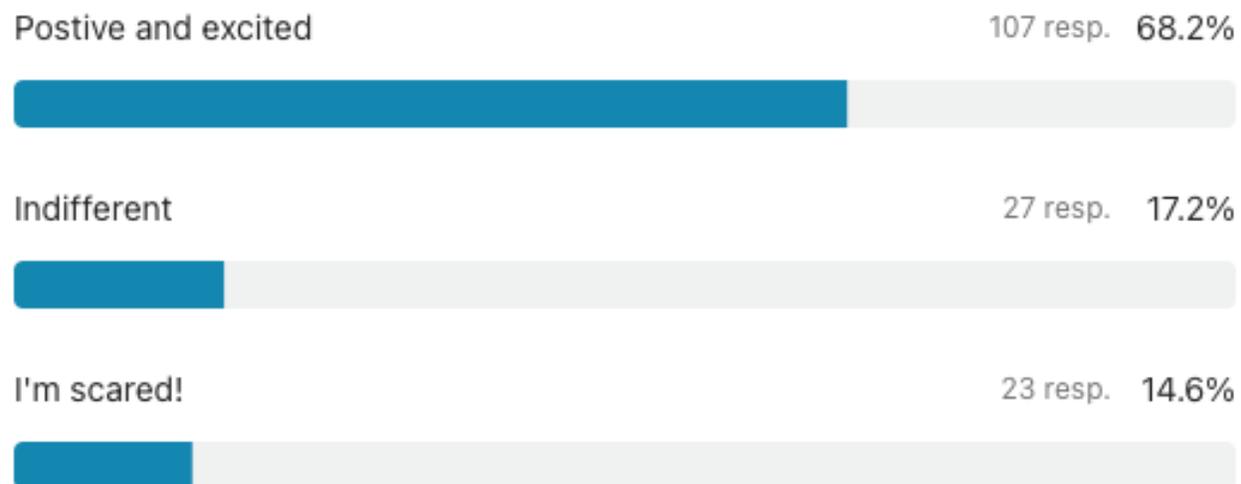
Types of AI tools used

Most
creatives are
positive &
excited
about AI!



How do you feel about AI and machine learning, in general?

157 out of 157 people answered this question



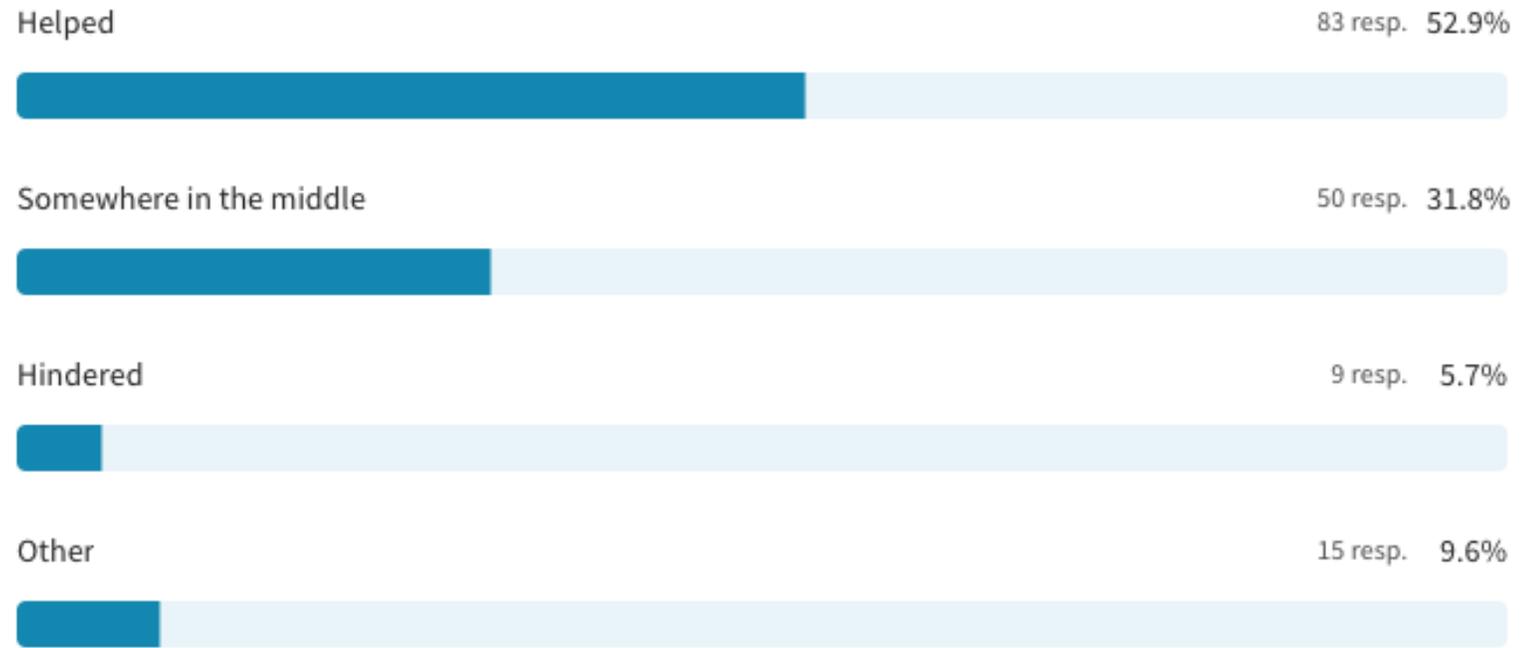
What SA creatives said

“AI has a lot of **unimaginable possibilities** as a tool we use as part of our production process, the technology is still new, and the negative is slowly coming to light but **with the right legislation we can create guardrails to protect IP from unauthorized use of copyrighted works** during machine learning. In time will have rules and laws to govern it, so there's **no need to panic just yet.**”

- “The key is about **who is feeding the AI directives and instructions**. Since I'm not in control of that, I can't dictate what direction the AI should develop in. All I **hope is that it's developed in a safe manner where if it's meant to grow**, it can be instilled with some type reasoning which can allow it to be used for **more practical applications outside of replacing humans in their respective fields of work/art.**”

Has AI or machine learning helped or hindered your **creative workflow** or somewhere inbetween?

157 out of 157 answered



Most creatives have used AI and think it's helping them somewhat

Most creatives
do not think AI
has affected
them
negatively

Has AI affected you negatively in any way?

156 out of 156 answered



What SA creatives said

“The distinction must be made between unregulated generative AI and AI in general. The former has already threatened copyright industries like mine and threatened the livelihoods of human creators”.

“Music copyright infringement”

“Well, I think it affects all of us negatively because it is **inherently biased and commodified by neoliberal capitalism**. I'd like to see and explore how to use AI differently”.

Most creatives
think we need
policy
regulation for
AI

Do you think we need policy to regulate AI in the creative sector?

154 out of 157 people answered this question



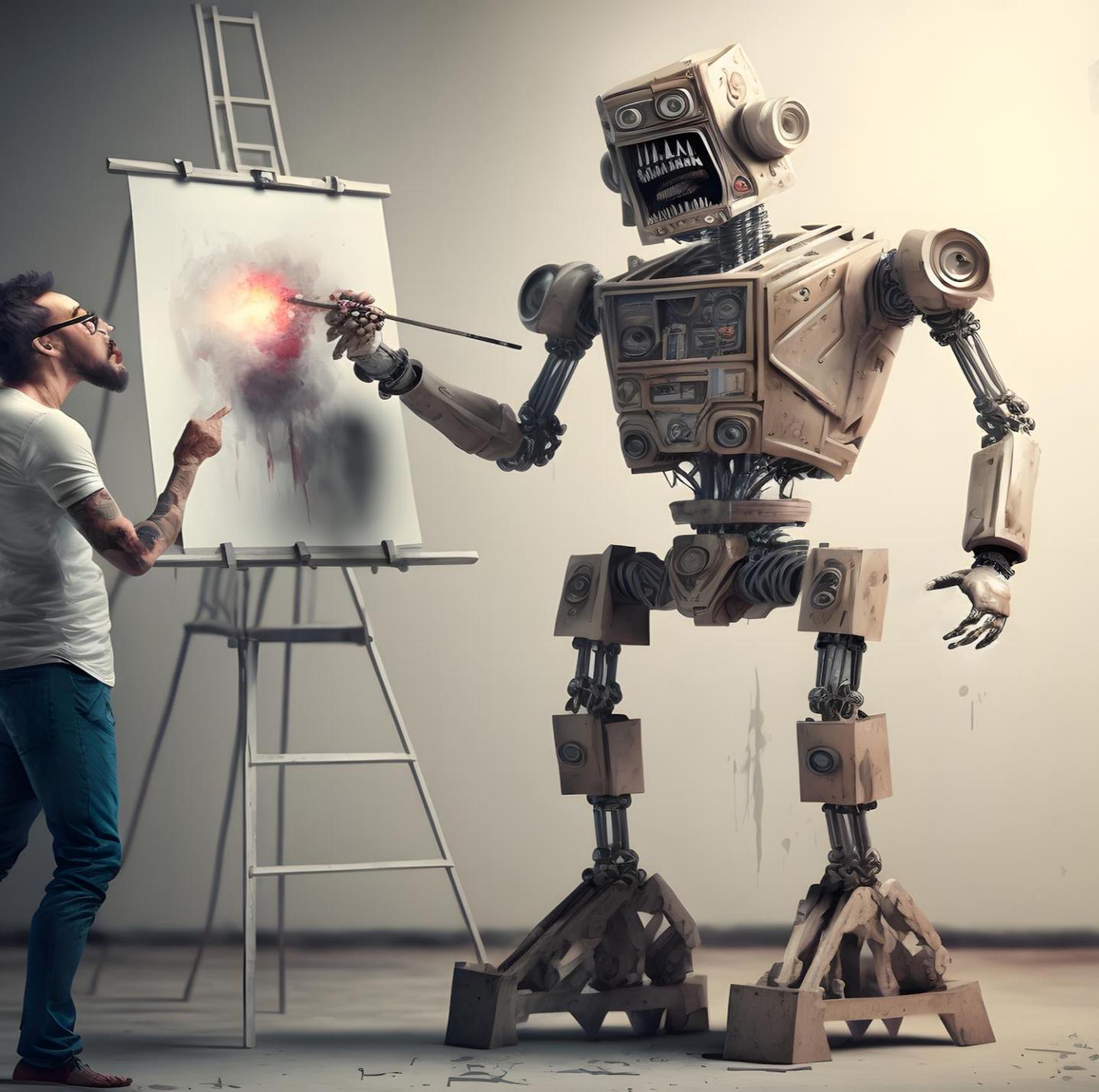
What SA creatives said

“YES!!! But it will be pretty much impossible to police, which is quite depressing”.

“Fair Use is useful for users of creative work, and for those technology companies who benefit from assuming that their version of 'progress' is the only version. **Fair use in South Africa will be a force of destruction for the creative industries**, and therefore ultimately result in a severely negative impact for users and technology companies.

“Yes I am concerned, all copyrighted material must be respected and only used once an agreement and permission has been granted by owner(s). If big tech companies don't respect and follow the copyright laws they will influence the general public to also not respect copyright laws leading to more cases of infringements.”

“Definitely. Generating content with AI that doesn't clearly define it's sources is problematic with regards to plagiarism and limits the use of AI generated content. It also creates a question around copyright and IP - who owns AI generated content and how does IP get assigned for the person who fed the request into AI vs the AI tool/owner.



Key take outs and emerging tensions

While there is recognition of AI's capabilities in generating content and streamlining processes, there is also a strong sentiment that human creativity possesses unique qualities that cannot be replicated by AI. Thematic issues focuses on:

- Potential for replacement
- AI as a tool, not a replacement:
- Augmentation and assistance
- Concerns about misuse and regulation
- Uncertainty and outlook

The consensus leans towards viewing AI as a tool that can complement and enhance human creativity rather than completely supplant it.

The story of AI's emergence and its impact on all sectors and areas of work and life is a story of extraordinary technological disruption. It is also one of the most powerful tensions between the past and the future, policy and power, creativity and automation, fear and excitement, slowness and speed, and more. The AI era is here.

We need to adapt to it.

9 SA policy recommendations for AI-ready CCIs

1. National vision and governance

2. Ethical guidelines and legal frameworks

3. Education and capacity building

4. Infrastructure and accessibility

5. Data governance and privacy

6. Innovation and research

7. International collaboration

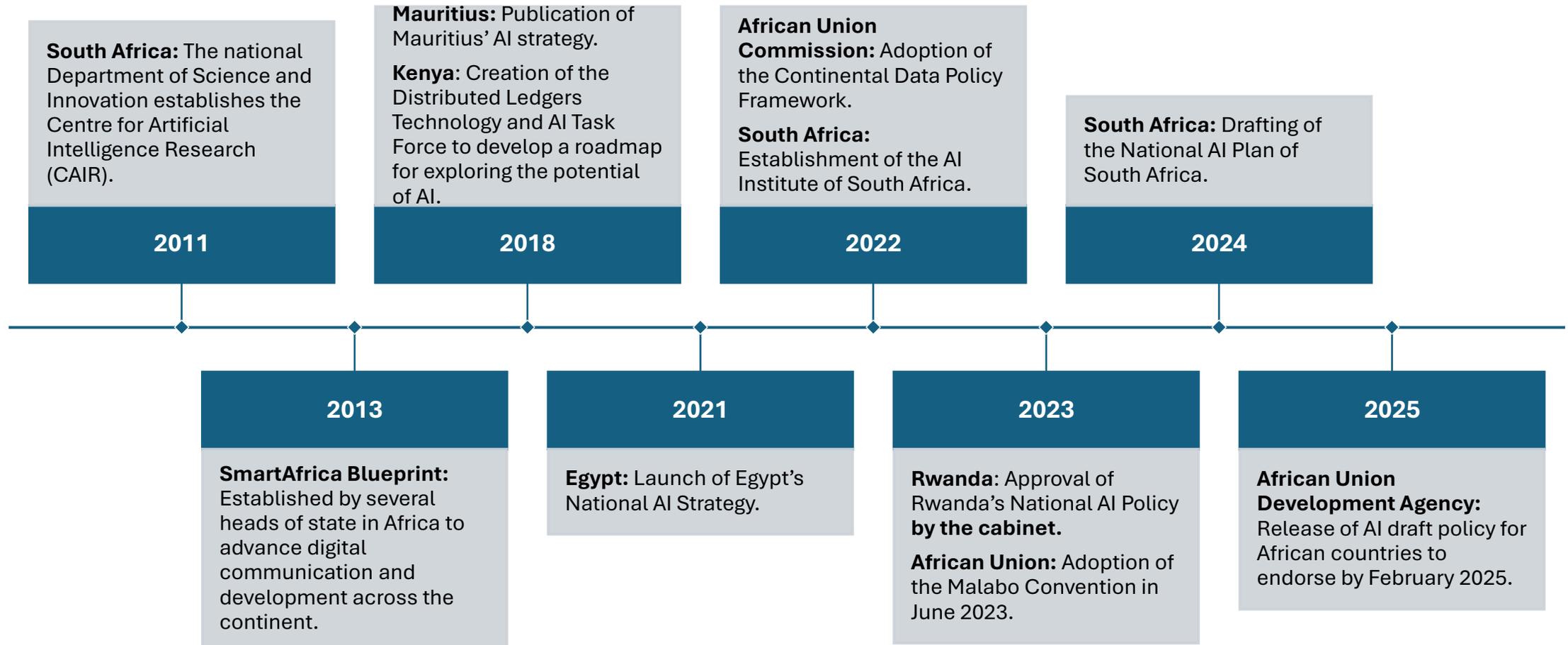
8. Worker protection and fair compensation

9. Monitoring and adaptation

Timeline of global AI legislation evolution



Timeline of African AI Legislation evolution



Summary of timeline of key developments in AI legislation on the African continent 2011-2023. Source: SACO, 202

**Let's build a creative,
moving Mzansi, world
together!**



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