A New Era of **Tech-Empowered Cities** Generative AI creates massive opportunities for local and regional governments to rapidly deliver secure,

modern, and sustainable experiences. Ruthbea Yesner Vice President, Government Insights, Education and Smart Cities, IDC



GenAl is a form of artificial intelligence to create text, audio, video, images, and code in response to short prompts and based on the data on which it was trained. Governments are already investing in GenAl:

Role in Government

Transformation

of governments worldwide are in initial are investing 64% 31% exploration of use cases significantly now. or proof-of-concepts.



Source of GenAl funding:



Source: IDC's GenAl ARC Survey, August 2023

will shift budget from other digital transformation projects.



IT budget to ensure timely investment.

will increase overall

GenAl Empowered City Workforce and Operations

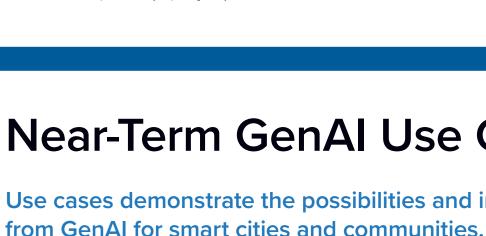
Process automation

32%

Al virtual assistants

Governments anticipate greatest impact of GenAl on workforce

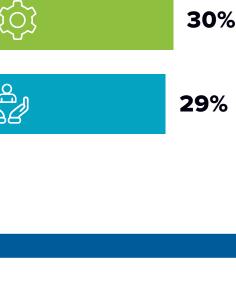
and operations transformation: Integrating workflows and data from multiple applications.....



IDC predicts that in 2024,

of government respondents said they would use Al in citizen call

center services and support.



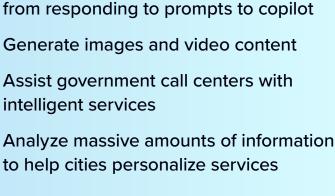
of cities and states globally will pilot GenAl to improve efficacy in community outreach, procurement, staff recruitment and training, and software development.

Cities and states should prioritize use cases based on defined value, complexity, and risk. Example: Using GenAl for customer support to answer benefits

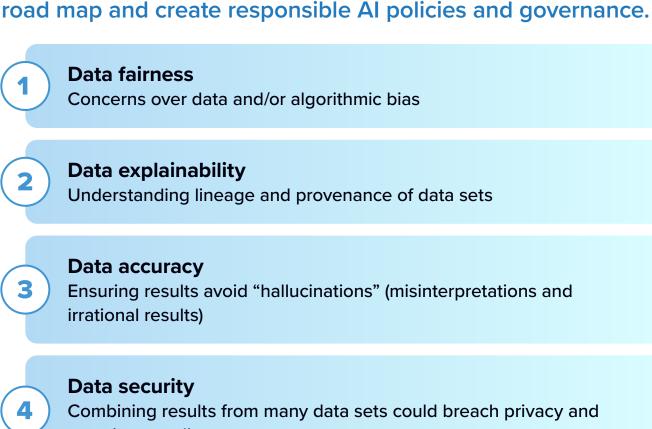
GenAl can:

eligibility for benefits.





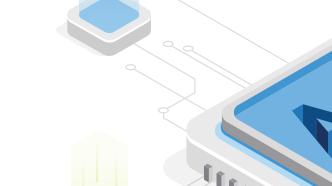
such as council notes, police complaint



Source: IDC's GenAl ARC Survey, August 2023

Technology Considerations Technical issues around compute infrastructure, Al platforms, and new cybersecurity threats highlight the importance of trusted external partners. INFRASTRUCTURE





60% of regional and

local governments have

hybrid and multicloud

38% of governments

repository integration

architectures is most

important for GenAl

infrastructure.

compute and storage

Sources: IDC's GenAl ARC Survey, August 2023; IDC FutureScape: Worldwide Smart Cities and Communities 2024 Predictions, October 2023

agree that ease of data

across hybrid/multicloud

environments.

- **Guidance** and Recommendations Steps smart cities and communities can take to benefit from the opportunities of GenAl while managing the risks and challenges.
 - Develop responsible GenAl policy for guardrails and compliance Banning GenAl use is not an effective, sustainable, long-term policy Ensure sensitive data is not training the model Deploy the "gold standard" of Al safety, i.e., humans in the loop Train and Hire for GenAl Skills Create new job descriptions
- Message from the Sponsor

With a foundation of security, privacy, and trust, Microsoft empowers Governments to deliver inclusive programs, transform operations, and enable thriving communities. To help to solve society's biggest challenges, Microsoft delivers innovation in programs

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GenAl is part of a larger regional and local government trend to automate processes to improve productivity and the employee experience. Top technology investments for next 18 months to improve productivity:



Collaboration tools

Saving employee time and

productivity gains.....

Improving the employee experience... Source: IDC's Future Enterprise Resiliency & Spending Survey, Wave 5, June 2023 Near-Term GenAl Use Cases Use cases demonstrate the possibilities and impact

are looking to use Al to

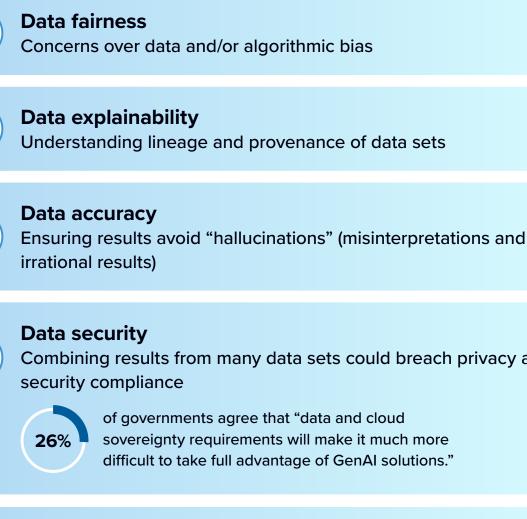
personalize government service delivery.

· Generate, test, explain, audit, and translate code Create compelling RFIs/RFPs and job advertisements

records, and so forth

eligibility questions is less risky than using GenAl to determine

Inhibitors, Fears, and Challenges in Adoption There are known and unknown risks in the responsible use of GenAl. Address the known risks now as part of a strategic Al



(compute and storage). 23% spent on dedicated Al-specific server and storage infrastructure. tttttt **Cloud requirements**

Compute power — GenAl requires compute

New investment in GenAl for next 18 months:

24% spent on public cloud-infrastructure

data, as well as data processing.

power for its large language models and training

Cities need to consider benefits of buy versus build.

Cybersecurity

GenAl can also enable bad

actors to create malware,

poison open source code.

and bolster hacker abilities.

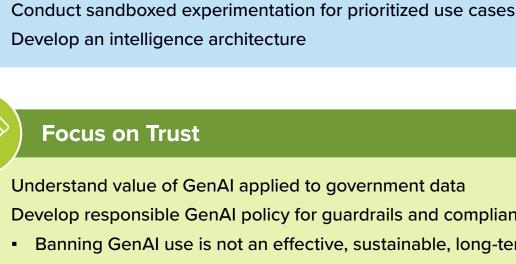
Al itself will need to be used

to sort through massive

against these threats.

amounts of cybersecurity

information to help protect



- Source: IDC, 2023
- Educate staff on GenAl as acceptable use policies are developed

 - Visit our website at aka.ms/gov

Scale GenAl Assess build versus buy strategies for AI workloads and infrastructure Partner with trusted suppliers

> Acquire new skills, i.e., prompt engineering, grounding, model construction, and code interpretation

- Microsoft
- and experiences, empowers the government workforce, transforms operations and services, and secures data and protect resources in government agencies worldwide.
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