Emerging technologies for small IP offices: Tailored approaches to empower smaller IP offices in the digital age

Teddy Edu-Yaw
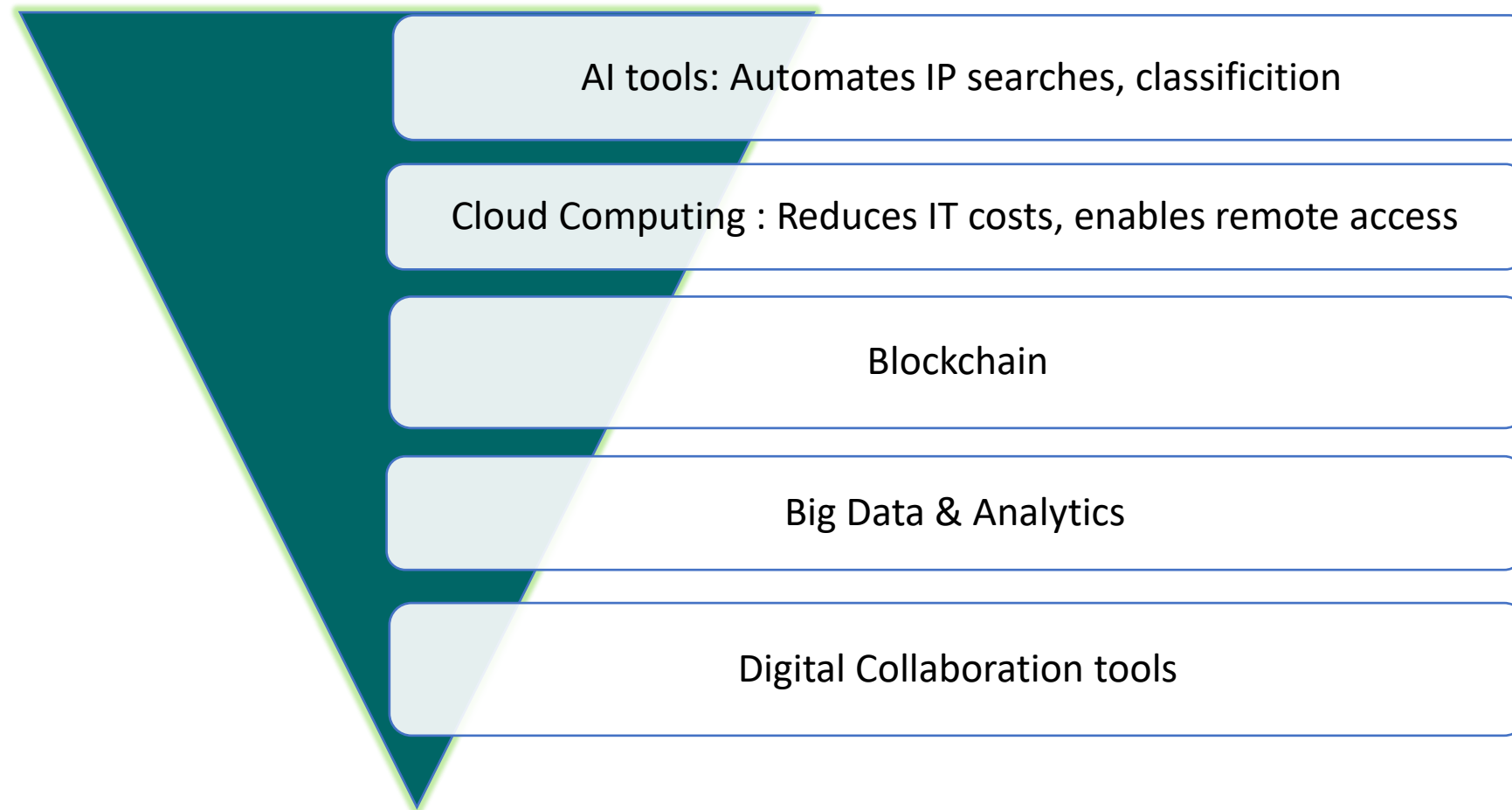
Principal IT/IM Officer

Ghana Industrial Property Office

Key challenges of small IP Offices

- Limited resources

- Staff skill gaps

- Manual workflows

- Backlog of applications

- Data integrity issues

Emerging Technologies transforming IP Offices

AI tools: Automates IP searches, classificition

Cloud Computing : Reduces IT costs, enables remote access

Blockchain

Big Data & Analytics

Digital Collaboration tools

Tailored Approaches for a Small IP Office

"Start small and Scale Smart"

❖**Adopting cost-effective digital solutions**

❖**Leveraging Open-Source low cost tools**

❖**Training and Capacity Building**

❖**Public-Private & International Partnerships**

❖**Policy & Legal Framework Support–** Having policies that support digital transformation (Data residency issues etc)

Adopting Cost-Effective Digital Solutions

- Cloud-based IP management systems tailored for small Offices (for IP administration, e-filing etc.) - WIPO's IPAS

- AI-driven tools for automated Patent search and classification to enhance efficiency

- Patentscope

- AI-Powered search and classification of trademark goods and services
  - Global Brand DB (Image Search)

  - Madrid Goods and Services Manager

  - Tmclass

  - Error in classification reduced by 80%

Leveraging Open-Source Low-Cost Tools

- Use Open-access IP search tools (e.g., Patentscope, Lens, Espacenet, MGS, TMClass, Global brand DB –Image Search)

- Adopt WIPO Free AI-powered Translation tools for multilingual IP applications

-WIPO Translate

- Integrate open-source APIs to connect these tools with local office systems

Capacity Building

- Train staff on using these tools

- Online training modules on search and examination - (WIPO Academy's DL courses)

- Workshops on emerging technologies and automation of small IP offices

- Knowledge-sharing networks to learn best practices from other offices

- Having skilled IT staff to support examiners in the use of these digital tools

Public-Private & International Partnerships for Digital Growth

- Partnering with tech companies for affordable software

- Partnering with Universities and research institutions to create technology support centers to promote access to patent information to drive innovation in digital technologies

- Having partnerships with larger IP offices

- Regional IP networks for shared access to advanced databases

Which of these technologies should a small IP office implement first?

- It appears easier to adopt free Open-source Patent and Trademark Databases first – (easy, low cost, immediate benefit)

- However, it is best to have a cloud-based IP administration system (medium difficulty, high impact)

  - WIPO IPAS

  - Request assistant from WIPO for setup and training

- AI-Powered IP search tools (high complexity, high impact)

Implementation Roadmap

1. Assess current capabilities and identify gaps

2. Develop a digital strategy

3. Adopt and Pilot emerging technologies in key areas

4. Scale up successful solutions

5. Continuous monitoring and improvement

Conclusion

❖ Digital transformation is essential as emerging technologies can level the playing field for smaller IP offices

❖ Tailored approaches ensure cost-efficiency and scalability

❖ Collaboration, training and tech adoption are key enablers

❖ Call to action for small IP offices to embrace emerging technologies in their quest to modernize

Thank You