

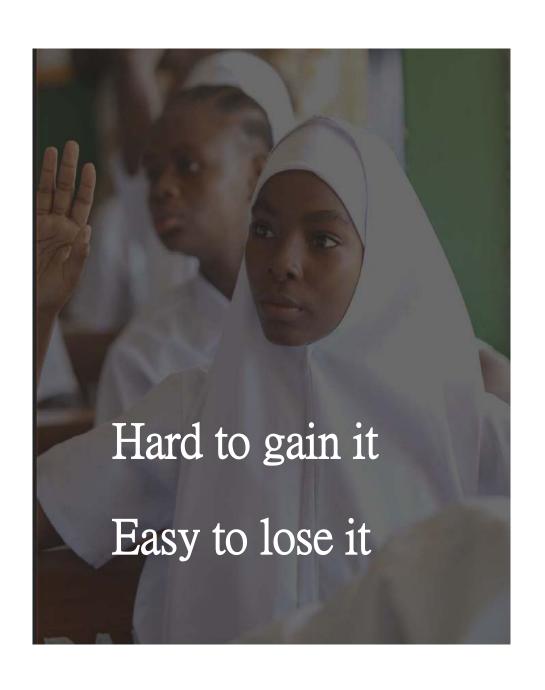
Harnessing Innovation Beschnalogy CULTURE OF **INTEGRITY**





Stephen Zimmermann

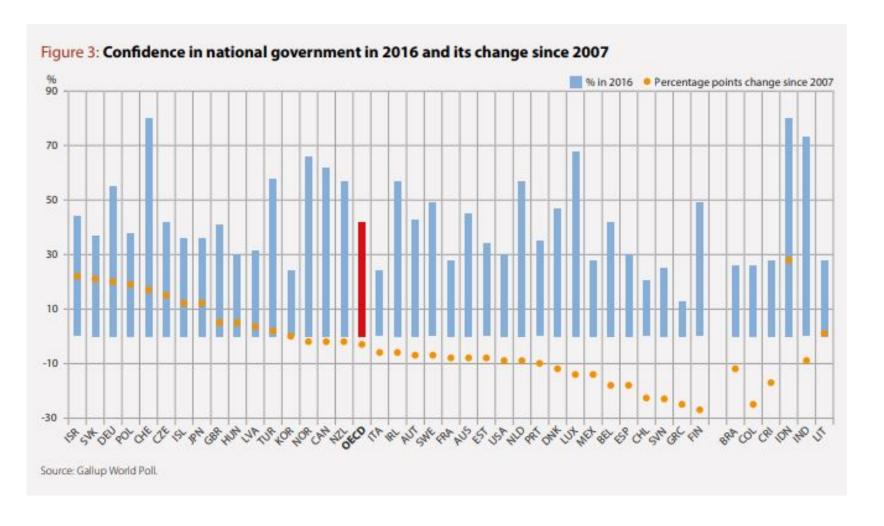




The Importance of Trust

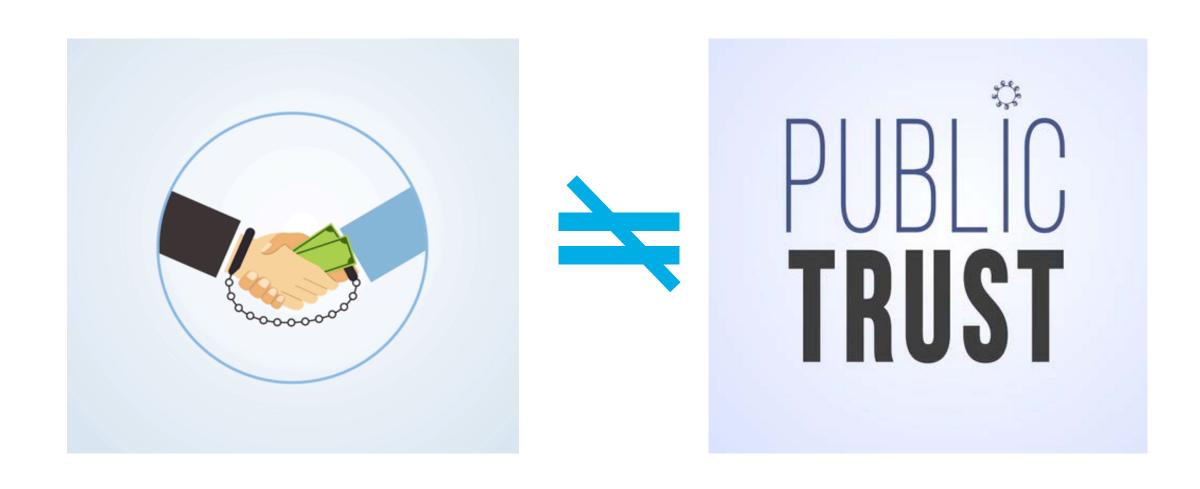
The trust of citizens in their government institutions is the foundation for a culture of integrity.

Only 43% of citizens trust their government



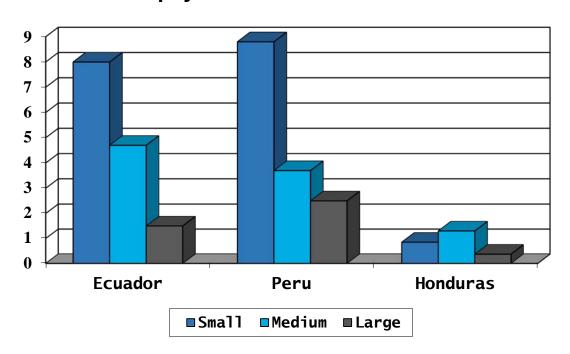
and this rate is dropping...

Corruption is a key reason citizens have lost trust in their governments

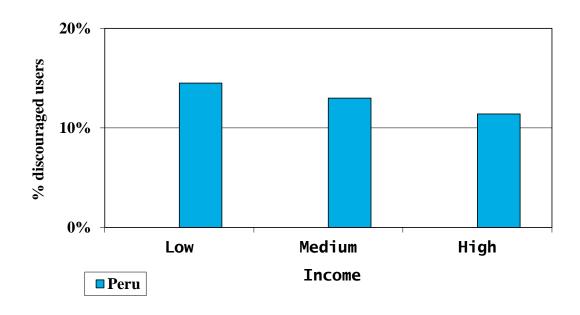


Corruption Also Worsens Inequality & Exclusion

Inequality - Corruption is a
regressive tax: Poor & small
firms pay more in bribes



Exclusion - Corruption restricts access of poor households to public services



WBI diagnostics. % of gross monthly revenue paid in bribes, as reported by managers 2001.

WBI diagnostics. Discouraged Poor Users Due to Bribes, 2001.

A Culture of Corruption

Corrupt systems make it very costly for individuals to behave honestly

Entrenched corruption creates a higher tolerance among citizens

This weakens incentives to behave honestly - and risks making corruption seem normal

Underscores the Need to Move to a Culture of Integrity

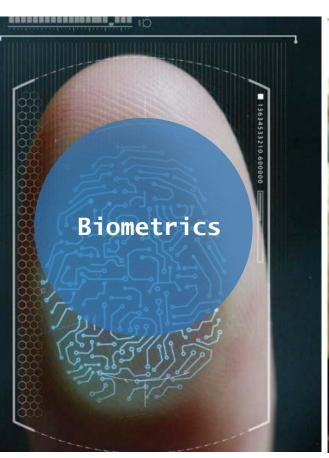
Grow citizen ownership of the anticorruption agenda

Results in more trust that public institutions operate fairly and ultimately leads to an evolution of norms and standards

Innovations in technology empower citizens to be agents of change that create a culture of integrity...



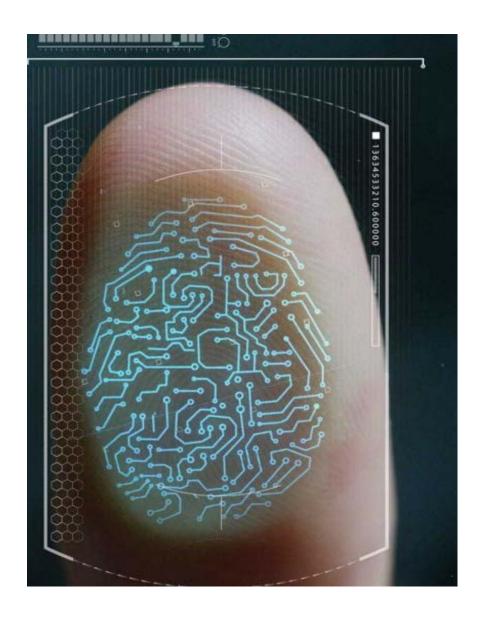
Innovating Through Technology to Confront Corruption











Biometrics

Biometrics



Digital Identification Technology creat es unique identities for citizens,

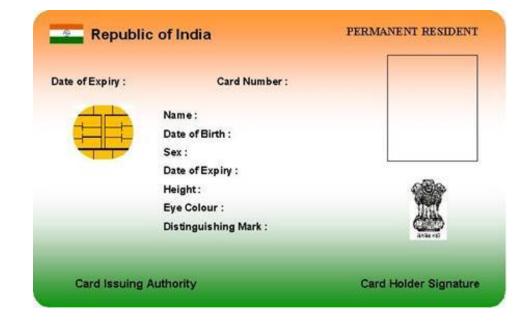
- increasing confidence that: intended beneficiaries
- Opportunities for corrupt officials to intervene are reduced

India

Smart cards reduce opportunities for

corruption and fraud Officials were taking a cut of social welfare payments meant for the poor, delaying payments and diverting payments to ineligible beneficiaries

- \$5.5 billion was distributed across 19 million villages
- After two years, payments to smart card recipients were up 35% and they obtained payments almost 30% faster



Biometrics

Fingerprints and facial recognition tools to prevent payments to ghost workers in government

Pakistan

World Bank funding has allowed the School Education Dept. in Sindh province to use fingerprint biometrics to monitor theathers attendance of spatched to thousands attendance old across the province with smartphones and handheld biometric devices to identify absent teachers

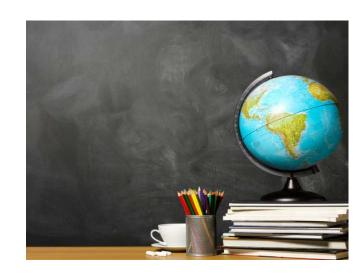
• System detected fraudulent payments to 40,000 absent teachers

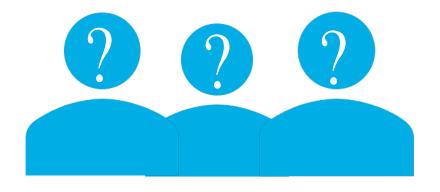
Guinea

The World Bank has supported the Guinean government's

use of biometric data to identify civil service "fl,080 out of 101,689 civil servants on the "ghost workers" payroll were either missing or nonexistent

• The government able to save 20 million dollars in just one year







Why Digitalization is Crucial



enforcement

Bangladesh

Electronic procurement creates open access to tenders information

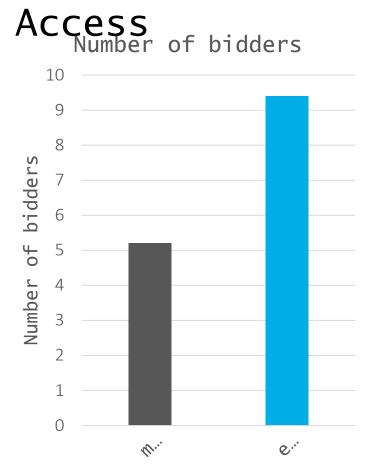


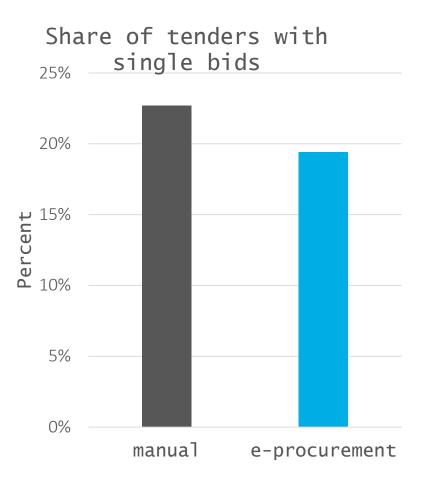
General Public Development Payment Services **Partners** Providers e-GP System Tendering Procurement Community Agencies **O&M** Partner **Evaluation** Committee e-GP System

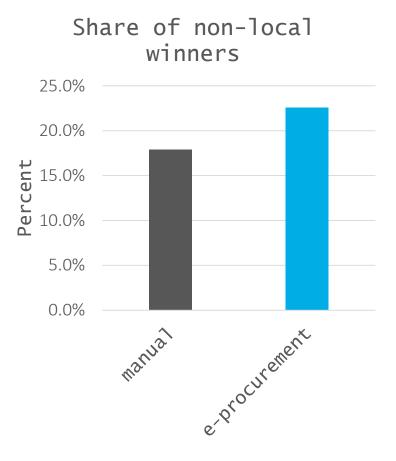
Dhaka, Bangladesh

Bangladesh

Impact of E-Procurement on







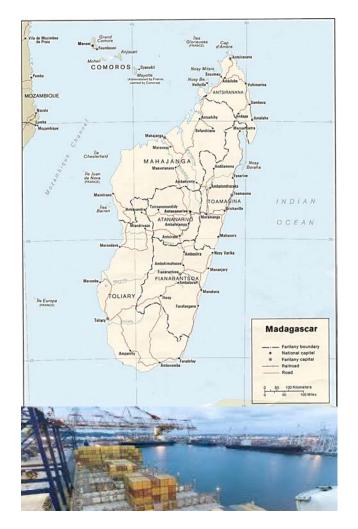
Madagascar

Leveraging digitalization of data to reduce corruption in customs

The Port of Madagascar collects 75% of the country's total customs revenue Advanced digitalization of data harnessed to monitor customs official's performance



Dramatically reduced tax evasion and common practice of inspectors requesting bribes Revenues per container increased by almost 40% and clearance time declined by almost 50%



Kenya





Kenya

Digital payment services can both facilitate & undercut bribery

Kenya M-Pesa Digital Payment Service:

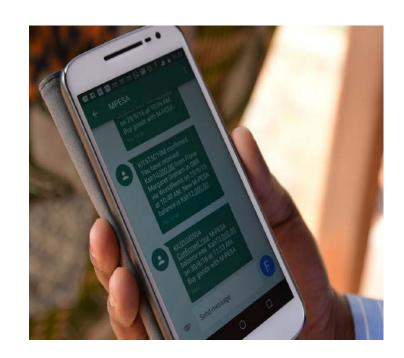
- M-Pesa uses a network of agents to accept the company's virtual currency for payment, and to convert it into real money to be dispensed
- Virtual currency transfers can be made through SMS or phone menu
- 1.7 billion transactions in one year



Kenya

Investigating Police Corruption

- Junior officers in the traffic department regularly transferred money through M-Pesa to senior officers
- M-Pesa kiosks around police stations were controlled by police officers to facilitate payments from motorists and junior officers
- Analysis of M-Pesa accounts for showed money transfers far exceeding police officers' salaries
- More than 350 senior police officers fired





Empowering Citizen Engagement

Empowering Citizen Engagement

Creating a Two-Way Conversation

Giving citizens a chance to be part of the solution by providing data back to government to help catch corruption

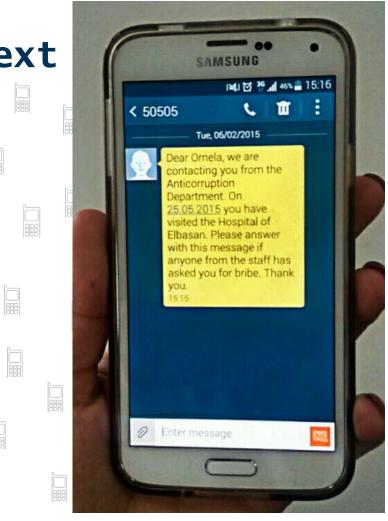


Empowering Citizen Engagement

Albania

Building trust in government one text

at a time SMS-based citizen feedback system proactively solicits information on bribery and service delivery problems within hospitals and property registration services, identified as highest risk for System to omtacted 187,000 citizens and investigated 189 corruption complaints to date





Using AI & Analytics to Mitigate Risks of Corruption

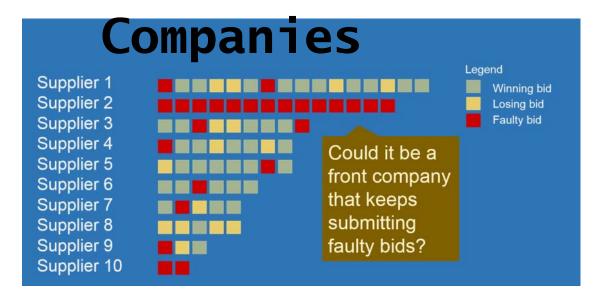
Using AI & Data Analytics to Identify & Mitigate Risks

Data analytics and AI can create a new generation of powerful tools to identify hard-to-Setivenherabiretes assured that corruption risks can be mitigated long before a bribe is paid



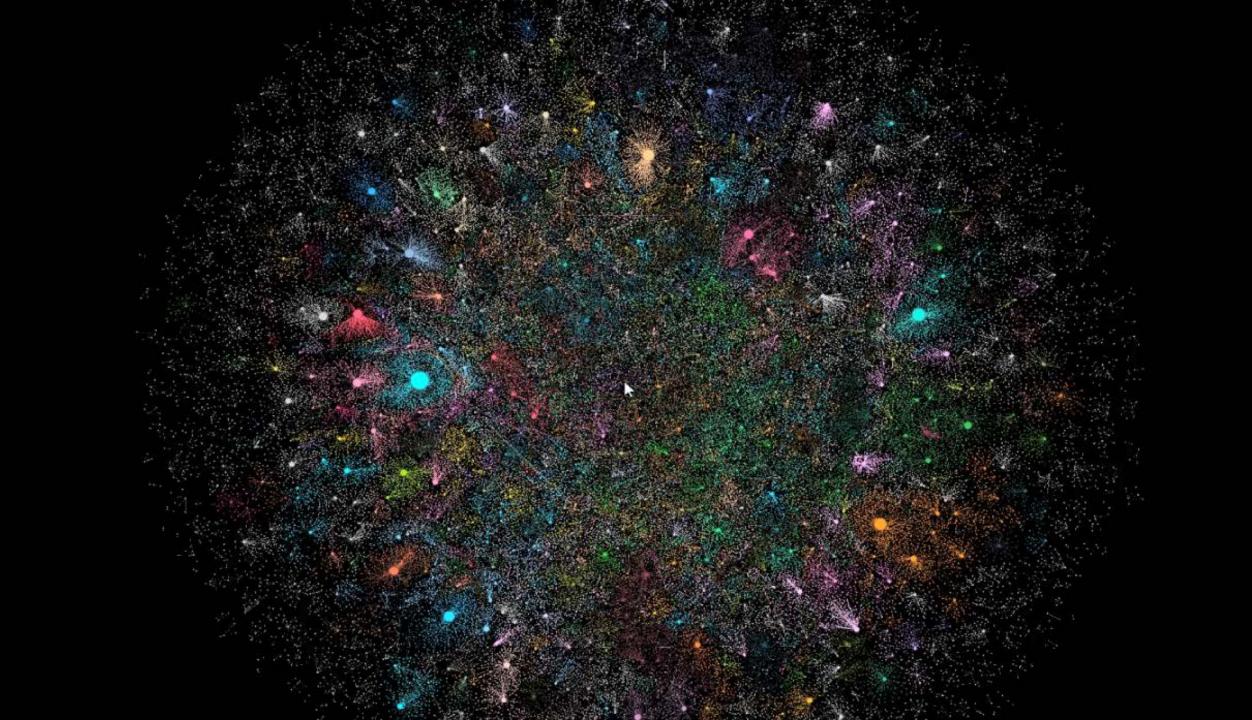
Using AI & Data Analytics to Identify & Mitigate risks *Investigating Bidding Patterns**

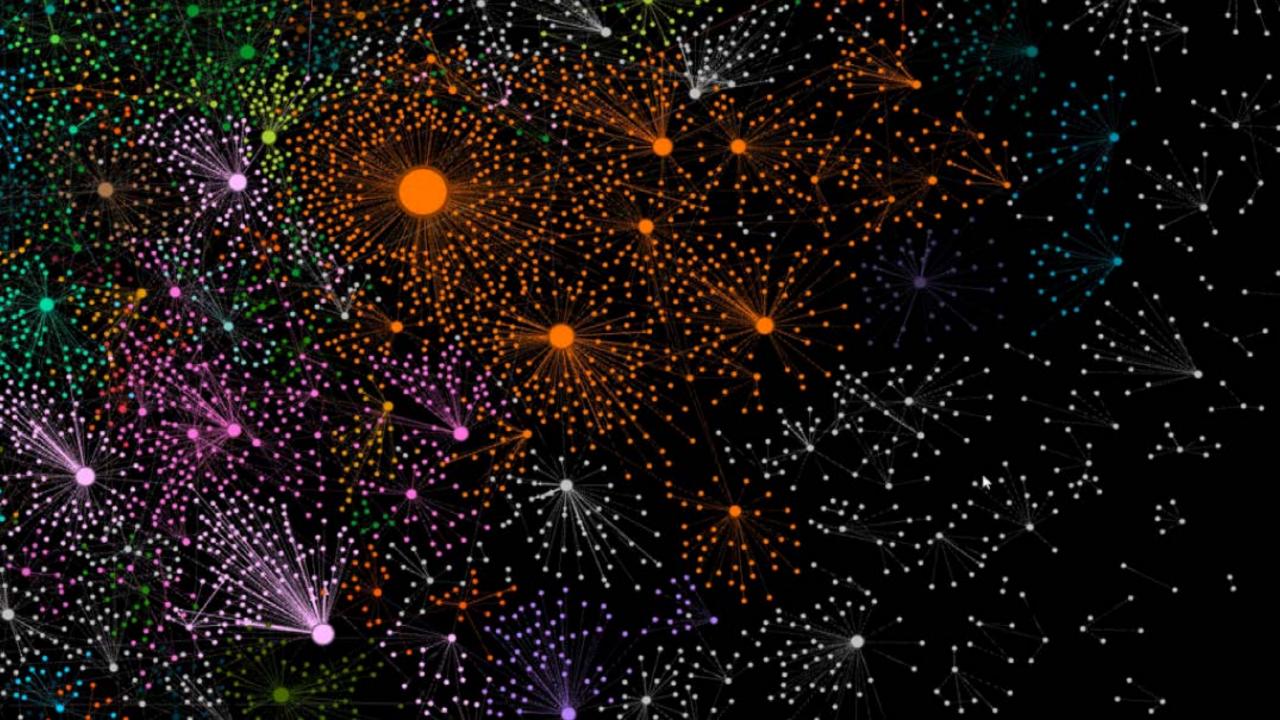
Front



Collusion

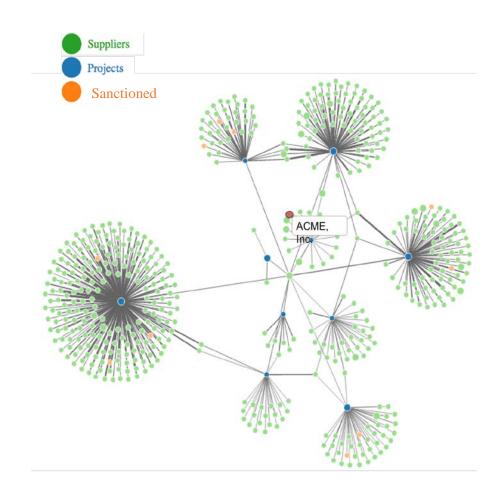








Using AI & Data Analytics to Identify & Mitigate risks Making connections the human eye can't see



More connections possible...

- Beneficial ownership information
- Property records
- Civil and administrative actions
- News reporting
- Social Media

Using AI & Data Analytics to Identify & Mitigate risks **Benford' s Law**

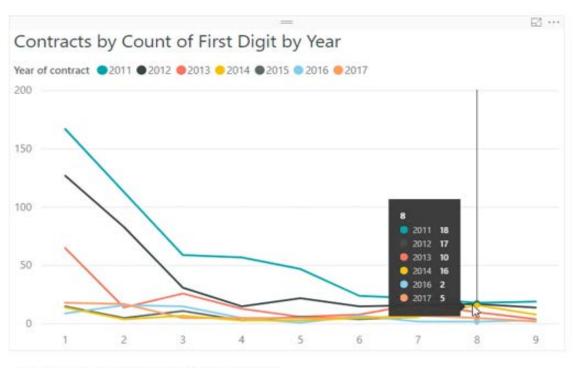
Contracts by Count of First Digit by Year



Contracts by Count of First Digit



Using AI & Data Analytics to Identify & Mitigate risks Benford's Law: Identifying Anomalies







Building a Culture of WHATAWAITS THE NEXT **GENERATION?**





THANK YOU

Stephen Zimmermann

