Digital Government Developing Countries

in



Posted by David Fellows and Glyn Evans[1]

With the aid of development partners, developing countries are making commitments to maximise the use of digital technology. The ICT industry is right behind them. In these reforms, digital technology is being represented as the principal transformative medium of government. But to think of "Digital Government" as necessarily transformative, almost an end in itself, is misguided. Governments should be primarily concerned to provide their services and engage with electorates in the most cost-effective way. Digital technology may or may not have a role in that process.

Here are some of the fields in which digital technology has demonstrated that it has a potential role to play in

developing countries:

- Transparency and public engagement
- Basic public service delivery in the fields of health and education
- Public safety and security
- The collection of tax and non-tax revenues
- The management of population growth in urban areas
- The sustainability and development of rural communities
- Skill shortages throughout the economy
- Economic diversification
- Measures to combat corruption
- Resilience to natural disasters

We do not accept, however, that the answer to any of these challenges is necessarily a massive investment in digital technology, say a 'digital city' or a fully integrated expenditure, revenues and payments system.

Many developing countries are not well positioned to make sustainable progress with digital technology in huge multifaceted programmes requiring vast initial expenditure. This form of development may do little more than provide substantial fee income for international consultancies and software developers. Once the consultants are gone and system design faults surface, client needs change or in-house staff are poached by others, then the facilities that promised so much may become more of a hindrance than an advantage.

Things may not even get that far. Without governments having sufficient staff with the necessary technical skills, digital systems may never be properly configured and the client may be left with a partially implemented system. Nevertheless, it is surprising how many such projects are specified and funded. Problematic factors are sometimes acknowledged without being fully taken into account.

We suggest that an evolutionary approach to digitally-enabled reform offers a more realistic way forward. The process should start with an analysis of the operational imperatives for improvement. This requires the following ten-point strategy:

- A clear vision for future service delivery and the developing relationship between citizens and the government
- 2. A thorough assessment of internal resources (skills, knowledge, staffing commitments and budgets) required to support the implementation of reform and new ways of working
- 3. An overhaul of management philosophy and governance arrangements
- 4. The identification of mechanisms to address relevant gaps in capacity including improvements in the recruitment and training of in-house staff and encouragement of local firms to upgrade their ICT capacity incrementally to support public service digital applications (multinational collaboration for the professional development of public servants and the improvement of governance and working practices are addressed in previous blogs)
- 5. An examination of the various options by which change can be achieved
- 6. A robust approach to investment appraisal
- 7. An assertion of priorities based on sound information and analysis
- 8. A clear strategy to deliver project sustainability
 (including security)
- 9. The identification of the benefits sought and how such

benefits are to be achieved, and

10. A relentless focus on benefits realization accompanied by the modification of working methods to rectify performance shortfalls.

This approach is based on our past work, which we can illustrate with examples of two completed major projects, as well as our experience in developing countries.

The first example in Knowsley, one of the UK's most deprived areas, was one of the world's first "smart city" projects, started in 1997. It featured public information systems, electronic application forms, payment facilities, public feedback on quality of service, schoolwork support, an interactive liveability learning application for mentally challenged young adults, digital enablement schemes and public availability of PCs in libraries and community centres.

The second project in Birmingham, the UK's largest metropolitan municipality was probably the largest digitallyenabled change programme ever undertaken in a European city. It included the digitisation of procurement, HR (including performance management) and accounting practices, providing managers with accurate, real-time information, and digitising customer contact and the fulfilment management of customer requests, resulting in customer satisfaction improving by 20 percentage points. The entire change programme realised revenue savings of f100 million a year.

These examples suggest that it is possible to make significant reductions in the risk to both funders and recipients of digital-enabled developments by:

- Preparing an organisational readiness analysis and development strategy as set out above
- Establishing the necessary roles and finding the right people to fill those roles
- Monitoring and evaluating progress, and
- Responding with operational modifications as necessary to achieve the desired outcomes, and as technological advances offer fresh opportunities.

Some developments will not necessarily require state financial or operational support. Private sector encouragement may be sufficient. For example, physical planning that offers confidence to developers or infrastructure standards that support the public use of digital technology.

In our view, a challenging reform agenda demands a flexible approach, cool judgement and realistic timescales. Those in positions of responsibility should take steps to avoid being found friendless and trapped by the expectations and largesse heaped upon them.

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Developing Systems to Combat Corruption



Posted by David Fellows[1]

Introducing the concept of "objective data"

In March 2018, we republished a short note on the use of objective data to combat corruption [2]. The piece highlighted statistical techniques being used in western countries to identify corruption by correlating unorthodox procurement practices with aberrant supplier behaviour established from factually based 'objective' administrative data. It was suggested that less complex approaches to the analysis of 'objective' data could be used to indicate the need for further forensic examination of officials, suppliers, and politicians. The emphasis was on finding workable approaches for developing countries that were compatible with the available resources.

The term 'objective' data refers to factual information

derived from official government records. It represents data on transactions, activity schedules, and personal information, recorded through established processes, that give the information credibility. This contrasts with 'subjective' data which is often based on opinions or experience that is poorly evidenced and of limited application, as is the case with corruption perception surveys.

Frequent use of objective data

Objective data is checked and compared in dozens of administrative processes which can produce anomalies that may indicate the presence of corruption. For example, invoices are checked against orders and goods received notes or contract certificates, or payroll submissions are checked against timesheets. In addition, national bodies charged with the oversight of public administration – such as supreme audit institutions and public procurement commissions – are routinely engaged in the examination of objective data which can also lead to the identification of corruption.

Such findings are then included in published reports that may be used to identify process deficiencies or potentially to prosecute cases of fraud and corruption. These oversight functions can be particularly effective when they are invested with independence from government, extensive powers of enquiry, transparency of reporting, and due consideration of findings.

Developing objective administrative data systems

Apart from routine scrutiny provided by administrative processes and oversight arrangements, programs of administrative reform provide excellent opportunities for the development of systems that incorporate the automatic validation and cross-referencing of administrative data to help identify patterns of corrupt activity.

Such arrangements are straightforward, well known, and remarkably simple to put into effect but in practice they are rarely complete or well executed. Too often there is a lack of expectation that good administration will have a beneficial effect. This places a premium on those who hold relevant managerial roles, requiring them to value high standards of administrative practice; exercise oversight responsibilities courageously, insightfully and in partnership with others as necessary; and ensure that reform opportunities are used to best effect. Well prepared and committed management is a prerequisite to any well-intentioned anti-corruption initiative.

Objective administrative data applications

Some examples of objective administrative data and its use to combat corruption are included in an Appendix available <u>here</u>.

The use of objective data could also be developed in other ways. For example:

- 1. Countries could prepare anti-corruption strategies that include the use and development of objective data and staff training. Such strategies should be accompanied by operational guidance. Anti-corruption strategies and related material are often referred to as being part of the standard anti-corruption armoury but are rarely made available. In practice, however, few of these documents have been produced to a reasonable standard anywhere in the developing world, and perhaps it is time to redress this omission.
- Additionally, collaboration between states, perhaps on a regional basis, could be helpful in developing techniques for interrogating data, preparing anticorruption strategies, sharing knowledge of corrupt practices, and building operational cooperation between

countries

3. Consideration should also be given by multilateral agencies and regional representative bodies to the development of an international systems assessment schema (akin to PEFA methodology[3]) that would indicate the efficacy and shortcomings of individual administrative systems for the purposes of combatting corruption.

This article is written with government administration in mind, but similar considerations apply to local governments and state-owned enterprises.

[1] Director, PFMConnect. The author thanks John Leonardo for his helpful comments.

[2] This blog was first published at <u>http://blog-pfm.imf.org/pfmblog/2018/03/how-useful-are-perc</u> <u>eption-indices-of-corruption-to-developing-countries.html</u>

[3] See https://pefa.org/sites/default/files/PEFA%20Framework_English.pdf

Forthcoming blog: Developing Systems to Combat Corruption



In a March 2018 blog PFMConnect co-principal David Fellows discussed the <u>deficiencies surrounding corruption perception</u> <u>indices</u> and outlined how objective data analysis could offer a clearer insight into the systemic nature of corrupt behaviour, thus providing a more precise indication of the corrupt parts of an administration, the number of external parties that are engaged in corruption, and features of the <u>public financial</u> <u>management (PFM) system</u> that need to be strengthened in order to combat corruption.

In a forthcoming blog "Developing Systems to Combat Corruption", David describes how an objective data system is used in practice and how the concept may be developed. Some further examples of objective data and their use to combat corruption is available <u>here</u>.

How Useful are Perception Indices of Corruption to

Developing Countries?



Posted by David Fellows[1]

The value and limitations of perception indices

There are numerous corruption perception indices. They provide an outsider's impression of the prevalence of corruption across the various branches of government. Some indices focus on issues of bribery, others are more general in scope. Some indices aim to engage with the general public, and others with businesses or NGOs. Perception indices can incentivise governments to tackle corruption given the reputational damage that they can inflict.

The shortcomings of perception indices, however, have been widely recognised, including in recent studies by UNDP and the IMF[2]. Their evidential base is limited; survey samples are generally small; within the same index a variety of methodologies may apply so they can lack internal consistency; methodologies change so trends can be questionable; standardisation is difficult to achieve between or even within countries and, as a result, the ranking of countries can vary from one perception index to another.

The relevance of objective data

Those agencies and officials responsible for preparing these indices are aware of the deficiencies and make considerable efforts to mitigate them. Their key deficiencies are unassailable, however. Perception indices are based on impression, personal experience and hearsay rather than hard fact. In a multi-faceted study of villagers' perceptions of corruption affecting road building in Indonesia, Olken finds that perceptions are a good indicator of the presence but not the quantum of corruption. He concludes that "there is little alternative to continuing to collect more objective measures of corruption, difficult though that may be"[3]. These factors can allow governments to diminish the importance of the messages that perception surveys contain.

An alternative approach has been proposed in a recent paper by Fazekas[4]. The paper gives an account of recent research into public procurement in which legal, regulatory and administrative records have been analysed to reveal the presence of corruption. Relevant factors include: the characteristics of the tendering process; the political affiliations and personal connections of suppliers; and the location and transparency of information about the ownership of these supplier companies. Fazekas correlates these various data sets to reveal behaviour that indicates a skewing of contract awards toward suppliers with particular characteristics.

Fazekas uses the term 'objective' to refer to factual data that are not mediated by stakeholders' perceptions, judgments, or self-reported experiences. Nevertheless, the data are based on provable characteristics (e.g., from suppliers and procurement agencies). This approach, however, can provide some significant challenges. Databases may not be available electronically, thus hampering data collection, and information is not collected on a systematic basis across countries. Despite these reservations, the approach can produce valuable evidence identifying areas of public administration that are especially prone to corruption, the role of officials in facilitating corruption, and the means by which corruption is being perpetrated.

Objective data analysis and developing countries

European countries and the USA have been at the forefront of this kind of work, but it also has potential for guiding administrative scrutiny and reform in developing countries. The necessary analysis could be undertaken by internal auditors, anti-corruption agencies, or other oversight bodies. These agencies could use the results to improve system design, and commission detailed forensic investigations of those concerned.

Fazekas uses sophisticated statistical techniques, but simpler methods could also be employed to measure inappropriate administrative processes, potentially illicit flow of funds between parties with close personal ties, the unexplained accumulation of personal wealth, citizens' complaints, and other indicators of corruption. These results could then be used to identify potential levels and sources of corruption and, if acted on, lend credence to the government's anticorruption commitments.

The approach outlined above is relevant to national and local government, as well as public corporations where significant levels of corruption can occur at the highest levels. Such work could be enhanced through external moderation and research collaboration across national boundaries, perhaps at regional level. A recent piece by the present author, published <u>here</u>, discusses the growing relevance of digital media to governance reform.

The importance of national leadership

Objective data analysis can offer a clearer insight into the

systemic nature of corrupt behaviour, thus providing a more precise indication of the corrupt parts of an administration, the number of external parties that are engaged in corruption, and features of the PFM system that need to be strengthened. It can provide data to support a vigilant administration that wishes to maintain pressure on corruption, complementing efforts to increase prosecutions or administrative reforms.

Whatever ideas are advanced, they will all require commitment from national leaders if they are to succeed.

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[2] UNDPs Guide to Measuring Corruption and Anti-Corruption (2015). See also IMF 2017, "The Role of the Fund in Governance Issues – Review of the Guidance Note, Preliminary Considerations".

[3] Benjamin A Olken, "Corruption Perceptions vs Reality" – https://economics.mit.edu/files/3931

[4] Mihály Fazekas "A Comprehensive Review of Objective Corruption Proxies in Public Procurement" <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2891017.</u>