

## **National Governance framework ver 1.1**

1. These newer frameworks are in line to existing national frameworks that can be either overlaid or extended to meet the needs.
2. Govt as a Service-GaaS, offering GaaS services to its citizens and residents.
3. Governance models, frameworks and architecture are based on emerging technologies like QAI, Block chain, AGI, ASI, cloud and digital platforms.
4. An integrated model that allows at least the Govt agencies at federal and provincial levels to meet the needs, adhere to the international norms and well being.
5. This model will consume emerging cloud models like public, private, hyper scale, sovereignty, IT+OT, air gapped etc and will have provision for universal plug and play for various newer models, tools and policies.
6. This lays foundation for the entire national digital and data governance in particular allowing for effective control and security of various CI assets and business engagements
7. Various ministries portfolio, approvals, rules, policies will be part of this model that blends with technology making best use of national assets, interest and productivity, measured in terms of RoI, Quality, revenue generated, merits etc.
8. Also a platform that allows hierarchy data and control flow horizontal and vertical ways using cloud scalability.
9. Data flows from bottom en mass upwards. Control, policies flow top down. Peers communicate EW and participate in NS traffic. Real time data and control from top monitored by ASI supercomputer makes it possible to catch wrong doings, self goals, public money labeled as private, conversion from black to white etc. All hires, fires, human needs, social needs disparity can be attended in time. National emergency, war situations can be handled at all levels in time and leveraging the last assets to defend nation in time is possible.
10. Digitalization of paper work, designing redundancy for CI using Digital twins, backups etc can help maintain the integrity of data and lesser false claims.
11. Cyber threats can be reported in time and counters taken in time.
12. Border security crossing, smuggling can get real time satellite data and ground public data
13. Forecasting of odd events possible using AI, QAI etc

### **Details:**

Data hierarchy is arranged by the authority and security level concerned within the national citizen charter. There might be specific small set of people who need more data and few that need lesser data or no data at all. However most of the citizens are entitled to receive basic data that is need to retain the integrity and sovereignty of the nation

So data can have various classifications and also the type of action and control scope and escalation paths need to know well in advance for any data breaches or confidential data being abused or misused. Identity theft, digital hacking, and spam all are to be in control as commercial data keeps growing.

Data is the new gold and it has importance and value for those who seek various benefits from this. However, personal privacy, identity theft, sales in dark web, all of these incidents needs to be addressed effectively.

Data can be raw and needs to be engineered to make it fit to use for various use cases, various types of personas, at various levels. Various tools can be used for OCR, extraction, form reading, etc and automation can help in processing large volumes of data.

Governing various types of assets, IP, IT inventory and related staff is not an easy one at a national level. It needs good amount of non-biased, clean data that reflects the true meaning of the concerned entity. Digital governance, data governance, enterprise governance, finance governance, defense governance, resident governance, industrial governance, and many more are required. This can grow beyond the corporate ERP modules. Govt ERP might need many more modules that reflect the ministerial portfolio, economy, Critical infra, agriculture, external matters, etc. So Federal ERP can be one such new software that takes care of the sovereign cloud.

Moreover, there is no single framework that fits all the departments, and addresses all the issues or claims. So, this ERP may not be single unit, tool or a COTS product. It is a blended product that has rollups, roll down, roll west and east modes. These help in aggregation at various levels and peers. Most the national assets need to be addressable digitally and this can help in getting data. However, this is on a volunteer basis to collect data.

We do have earlier databases like SQL, NoSQL, Columnar, Big Table, Global scoped DB etc. However, they do offer only technology capability. It is now that all these features can be leveraged in developing products that truly generate value to the fed that is used by the proposed Govt. ERP. Sovereign cloud is fine however it needs to go beyond mere technology and needs to consider the needs of the fed. This is possible only when the product requirements meet the needs of the fed staff.

In summary the emerging landscapes and products are fine to be used, however business needs should drive technology and not the other way around. Many products may not qualify as they seek the capture market and money is what they seek. However, that is bad for the state and nation. Every type of player should be given an opportunity to submit solutions and bid for projects as a legal resident and may not necessarily register a firm or LLC.

Debt is a big bomb and these technologies can save the nation. It is not about money, as an already lot of money has been wasted on salary paid to those who could not do, and who did have skills were never allowed a decent pay. Man in the Middle style Agents have played havoc to many economies and highly skilled visa (like the US H1B) is one visa that has been assumed to largely been abused by few capitalist who have monopolized the projects, high value business and have lobbied, bribed to win contracts. In simple terms this is why a licensed engineer is not hired when a non –recognized graduate wins a contract. We need to come out of debt and bad belief and bias. Sincerity, honest and non biased AI and quantum can help in coming out of various situations that can usher a new era of wealth and well being

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