

Iowa Department of Revenue (IDR) Tax Modernization Business Case

Iowa Department of Revenue April 3, 2019

Project Number: 330051949



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Gartner, Inc. was chosen to support IDR because it is the world's leading authority on the business of IT with a 39-year history

- Gartner has worked with numerous federal, state, and local agencies to develop strategies for digital modernization, including enterprise tax and revenue systems.
- Gartner has no economic interests in any hardware, software, or system integration vendors, providing unparalleled objectivity in its analyses and eliminating the biases found in other consultancies.

Gartner Differentiation	Proof Points			
IDR Goals Guiding IDR to make informed decisions on increasing their ability to meet rising demands.	 Project approach designed to produce supporting consensus. Project approach designed to link recommendations to objectives which matter to institutional leadership. 			
Solution Methodologies based on independent insight in a digital age.	 Tools embody best practices developed across thousands of similar projects. Reflects Gartner Research's up-to the minute knowledge of the tax processing system market and tax revenue agency trends. 			
People Seasoned experts that have mitigated risks and driven success for your peers.	 20+ Years working with global tax revenue agencies. 10+ Years working with tax processing systems. Project team members who understand the unique processes and culture of tax revenue agencies. 			
Brand Power of Gartner research, independence and objectivity.	 Largest IT research database (110,000+ reports). Global community of 1,000+ research analysts, 60% of who are hired with 20+ years of experience. Only IT and business Consulting firm with an Office of the Ombudsman to ensure independence. 			
Benchmarking Ability to measure, optimize and transform.	The industry's largest IT repository, drawn from 5,000 benchmarks annually.			



IDR is responsible for tax administration in the State of Iowa

What does IDR do?

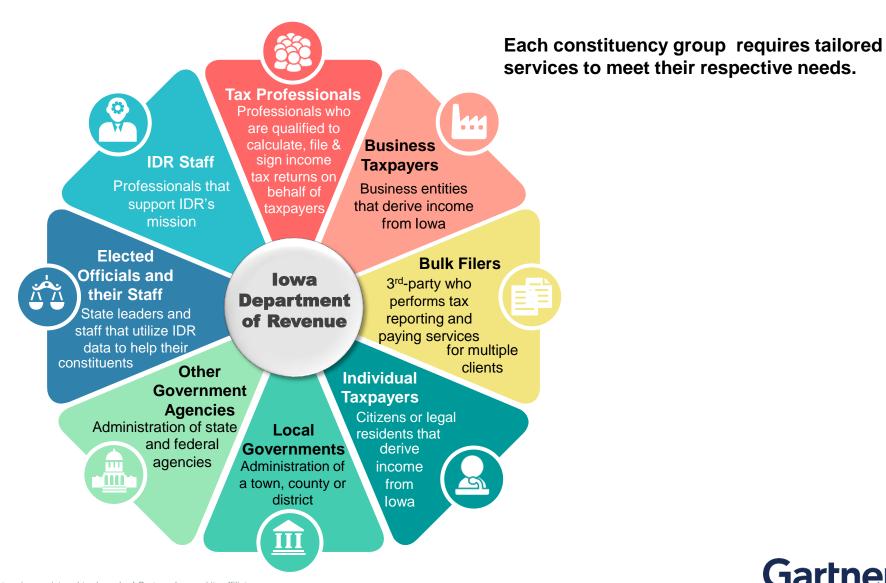
- IDR's mission is to serve lowans and support state government by collecting all taxes required by law, but no more.
- In FY 2017, IDR collected over \$10.1B in taxes and issued \$1.2B in refunds to taxpayers resulting in net deposits of \$8.9B to the State. In FY 2017, IDR processed over 2.5M tax returns.

Recommended Scope for Analysis

- Individual Income Tax / Withholding, Consumer's Use Tax, Fuel Taxes, Corporation Income Tax, Retailer's Use Tax, Franchise Tax, Hotel / Motel Tax, Inheritance Tax / Fiduciary Tax, Sales Tax, Local Option Sales Tax, Cigarette / Tobacco Tax, Replacement Tax, E911 Surcharge Fee, Hazardous Materials Permit Fee, Property Tax, Insurance Premium Tax, Real Estate Transfer Tax, One-Time Fee for New Vehicle Registration, Car Rental Tax & Vehicle Title Surcharge and Miscellaneous other Taxes.
- All tax processes including taxpayer registration, electronic filing (modern eFile and streamlined sales tax), paper filing, receipt and issuance of payments and refunds, taxpayer self-help, processing returns and payments, return resolution, processing refunds and offsets, compliance, appeals, tax credit transfers and claims, local government data exchange, revocations, collections, taxpayer customer service and tax data analysis.
- Collections of debt for other Iowa State Agencies, Counties and Cities.

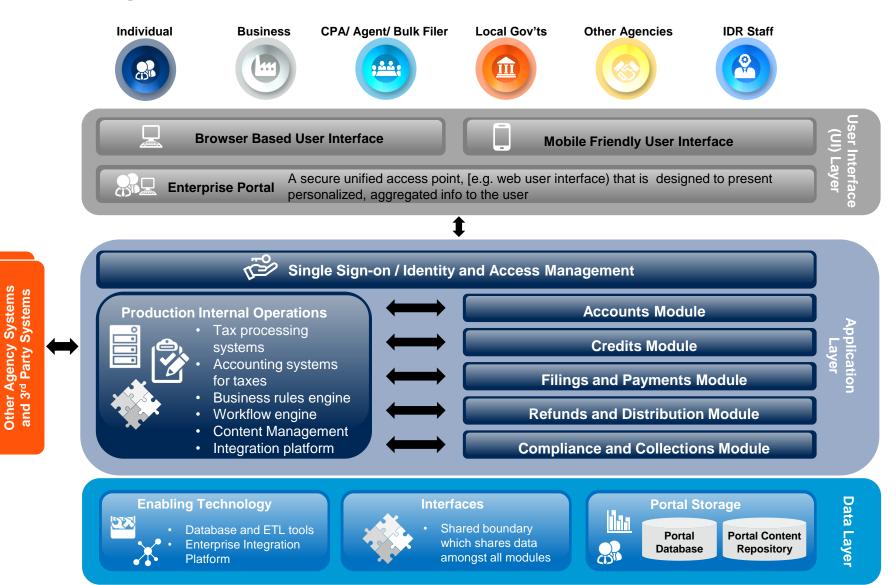


IDR serves eight constituency groups



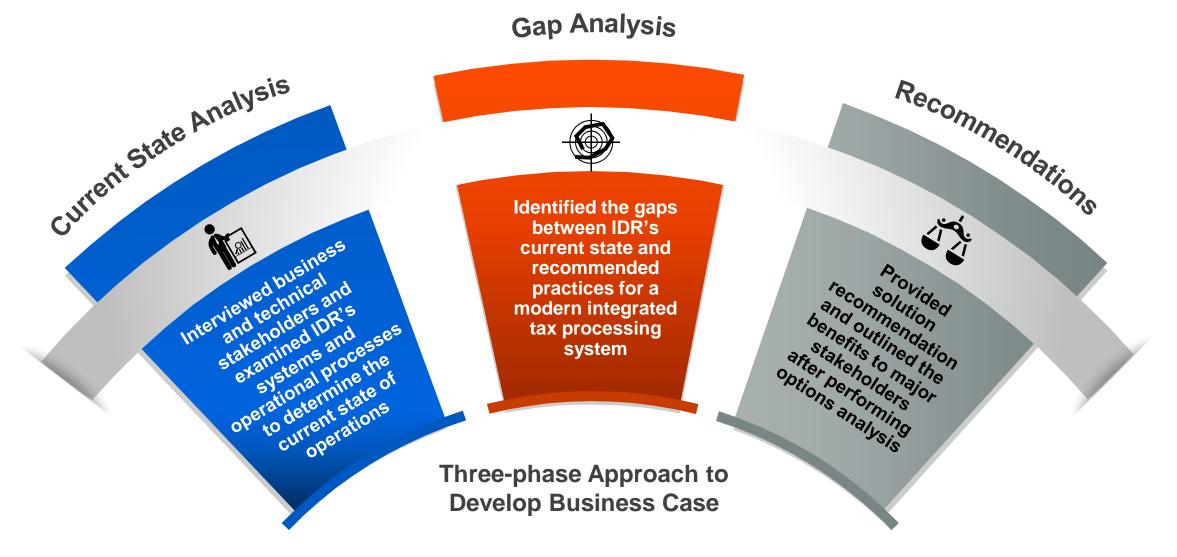


Modern tax systems are more streamlined and modular





Gartner used a three-phase approach to develop this business case





Current State analysis finds that IDR's constituency groups expect greater ability to manage their tax information and transactions

Key Expectations from Constituents:

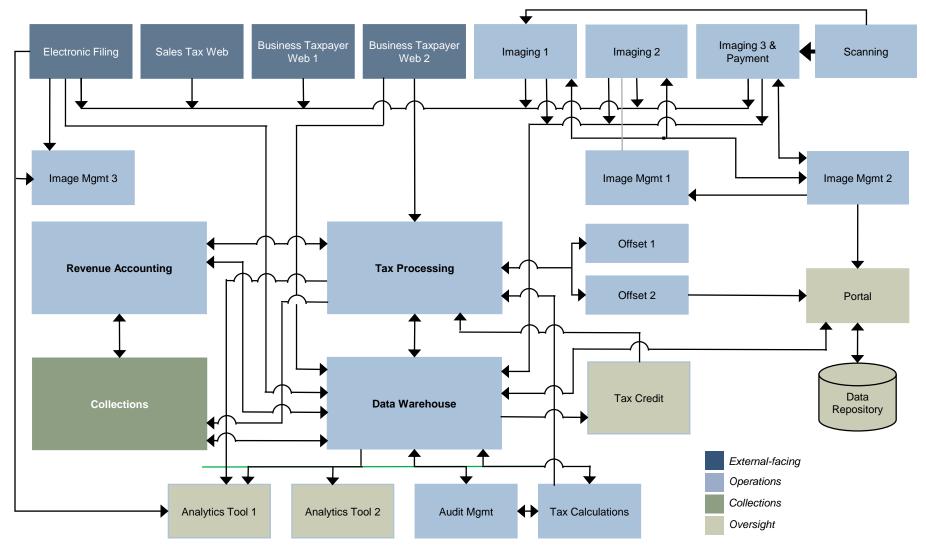
- Greater transparency into the status of their accounts and balances.
- Ability to perform self-service transactions online.

Key Findings:

- Over 24 unique systems support IDR's tax processing and span a variety of technologies; custom-integrated and complex architecture.
 - Four primary systems support the following functions: tax processing, revenue and taxpayer accounting, collections, and compliance.
 - Three systems manage receipt of paper returns and payments with multiple other systems performing a variety of tax functions.
- A limited number of staff have the combination of technical skill and business insight to manage IDR's technology environment.
- Replacing mainframe IT skills is not easy because the pool of external candidates with this kind of expertise is shrinking.
- IDR has complex processes that include substantial manual intervention due to the ad-hoc nature of application development over the years.
- Batch file transfers are used to facilitate the flow of information across systems which creates redundancies and inconsistencies.
- The investment, time, and resources required to transform IDR's technology to meet the evolving needs of constituents is significant.



IDR's systems have difficulty in easily integrating new functionality





Gap analysis identified that IDR wasn't operating at the desired speed, efficiency, and effectiveness

Gartner identified gaps between IDR's current and desired states related to the ability to administer taxes with speed, efficiency, and effectiveness.

Key Findings:

- Current IDR systems hinder staff's ability to efficiently manage the tax process. Also, taxpayer information is not managed holistically.
- The systems lack functionality, e.g., outward facing, secure taxpayer portal allowing self-help and access to account information.
- Primary systems are not scalable, or configurable. It is time-consuming and costly to implement system updates or integrate new functionality.
- Complex technology architecture introduces risks when making changes or additions to functionality.
- Core processing system updates are executed through batch processes on a daily, weekly, or quarterly basis.
- Few technical experts have an in-depth understanding of the existing technical environment.
- The current technology encourages IDR divisions to operate in "silos" that limit the effectiveness of IDR in managing the overall tax process.
- IDR is not currently in crisis, but has experienced "near misses" recently due to the instability and inflexibility of its core tax systems.



IDR Technology Findings

Complex Architecture

 Multiple technologies both modern and outdated are used.

 Core and periphery systems were combined ad-hoc.

Lack of Functionality

- Lack of a full-featured taxpayer portal with access to historical data.
- Multiple manual processes exist as work-arounds.

Integration Difficulty

- Business and processing logic are hard-coded together.
- Functionality dispersed over multiple systems.
- Scarce documentation.

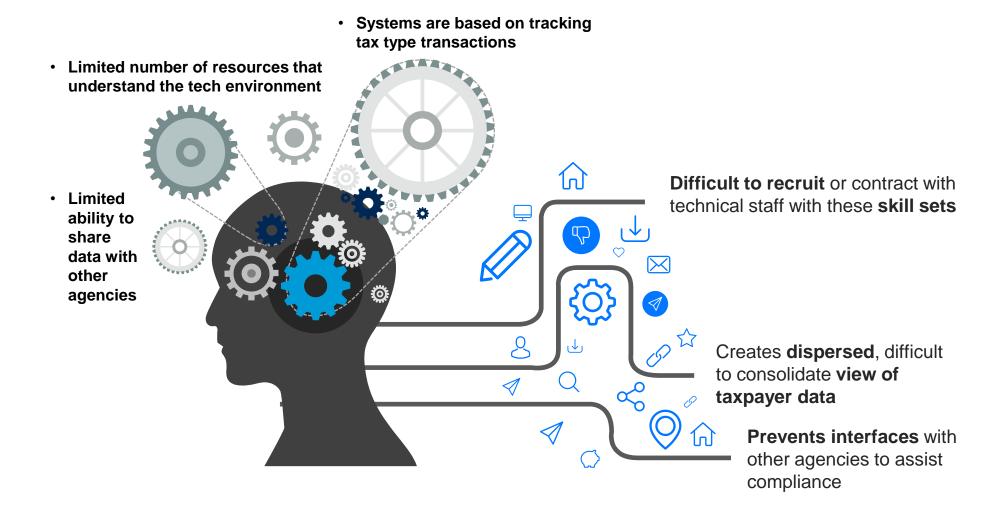


Data Integrity

- Data updated to core system at different times by different feeder systems.
- Manual creation of reports.

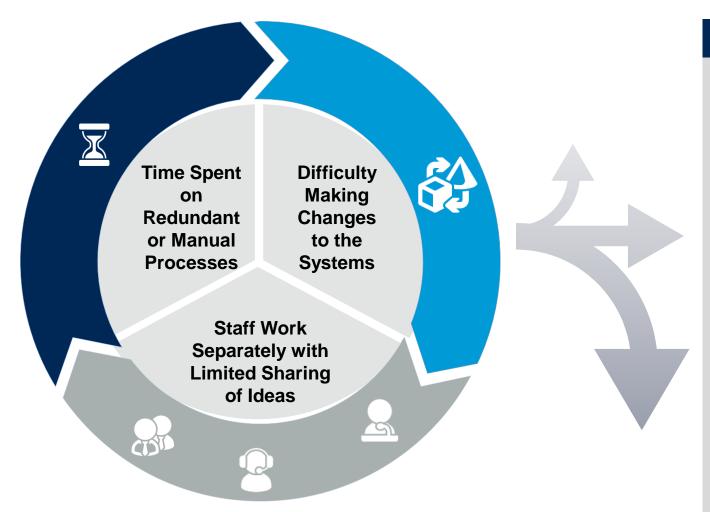


IDR Organizational Findings





IDR Process Findings

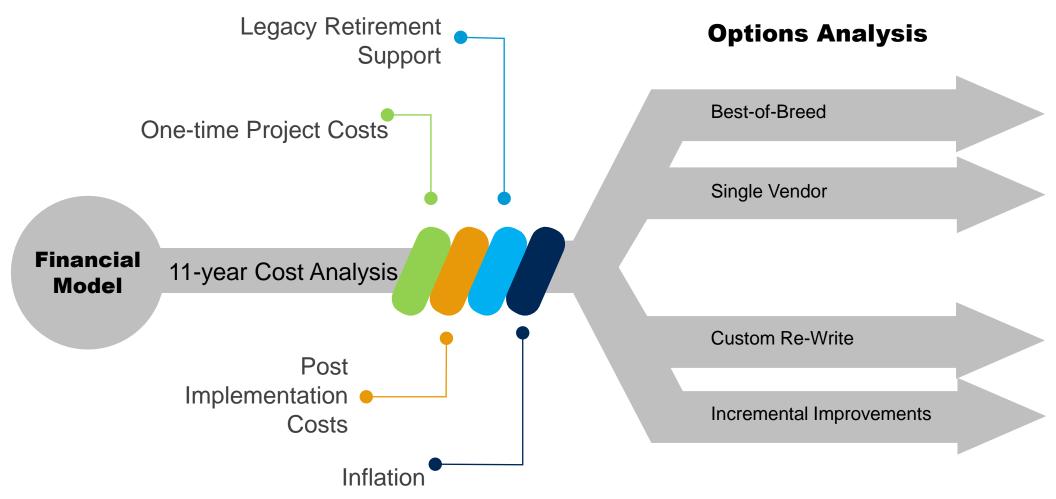


Operational Impact

- Manual intervention and duplicative workaround processes are utilized.
- Difficulty in changing existing systems **delay potential improvements** to the tax process.
 - Integration is technically difficult within the current legacy systems.
 - Business logic is embedded in system code which further encourages manual intervention.
- Best practices and knowledge are not easily shared across the operational and technical groups.
 - Operational groups are prevented from reviewing and improving processes from an end-to-end point of view.
 - Opportunities to streamline processes are inhibited.



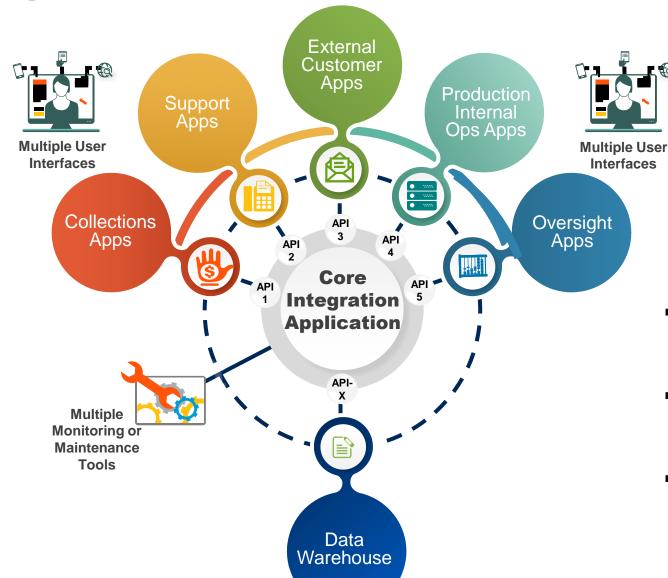
Gartner conducted a financial analysis of four options



The 11-year model assumes one year for procurement, five years for system implementation, and five years of post-integration maintenance and support. Gartner then analyzed the cash flows over 11 fiscal years for all options.

Best-of-Breed Option

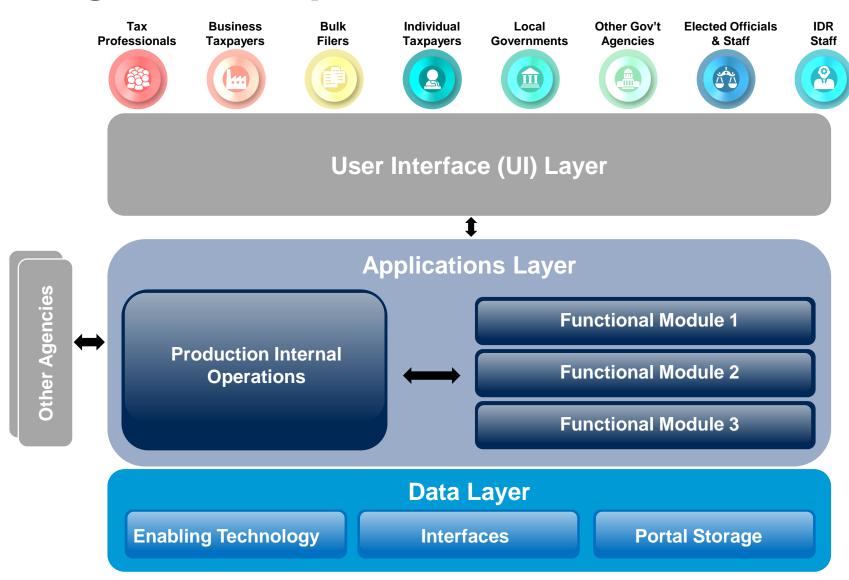
- The Best-of-Breed approach creates an integrated apps model with different technical solutions/vendors for each function.
- Provides deeper insight into particular business or IT functionality.
- Provides multiple point solutions, thus increasing flexibility to customize technical support.



- Negative consequences are cost, complexity, and lack of built-in integration.
- Does not prioritize integration, user interface, tools, or monitoring criteria.
- Can lead to challenges with integration, configuration, consolidation and overlapping features.

Gartner

Single Vendor Option



- Single vendor solutions are readymade, available for licensing to any organization.
- Favorable when the vendor has a suite of standard, commoditized functional features.
- There are three main business benefits expected from a single vendor solution.
 - Improved operational efficiency.
 - Greater insight and agility.
 - Reduced risk.



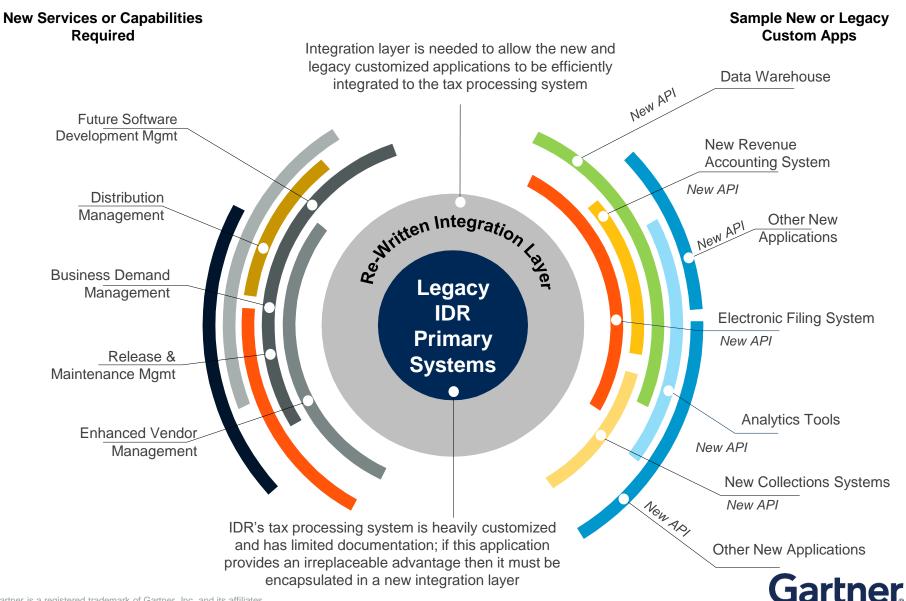
Custom Re-Write Option

Custom Re-Write models provide a high degree of control and alignment to existing business processes.

These models also tend to underestimate maintenance and support costs.

This model will require IDR to:

- Keep up with technology trends and develop a product roadmap to avoid technological obsolescence.
- Tightly manage knowledge capital.
- Mitigate risks of high costs due to longer implementation times.
- Singlehandedly address quality problems that may arise.



Gartner recommends IDR select a single vendor commercial-offthe-shelf cloud-based solution

This new modernized tax system supports the use of modular technology.

- Gartner's recommendation is supported by a detailed assessment of the tax system marketplace and a thorough cost analysis.
- The single vendor option is also expected to generate the lowest ongoing operations and maintenance costs after project implementation, starting in FY 2026.
- Another characteristic of the recommended option is a 5.3-year payback period, the shortest of all options.

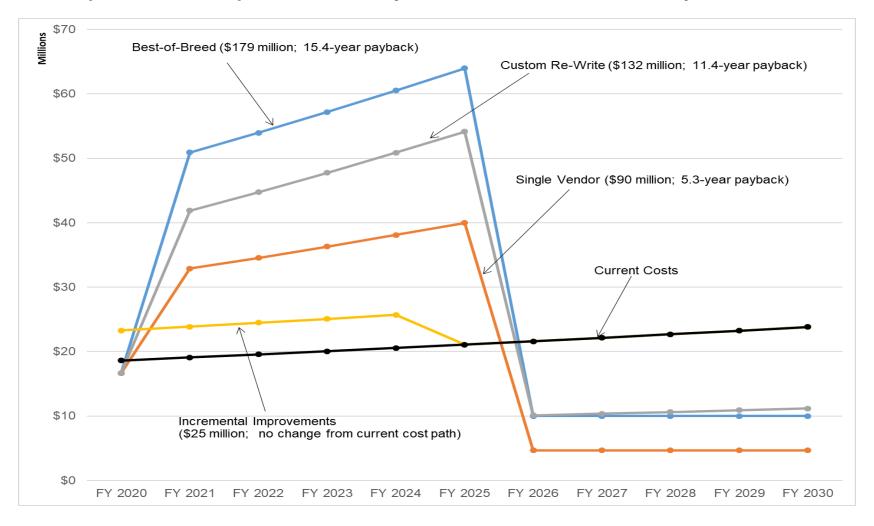
Tilluloidi Allaiysis of		Option 1		Option 2		Option 3		Option 4	
Cost Category	Best of Breed		Single Vendor		IDR Custom Rewrite		Incremental Improvements		
One-Time Project Costs (1-year prep; 5-year implementation)	\$	179,435,475	\$	89,678,236	\$	131,937,727	\$	24,590,156	
Hardware Purchase/Platform as a Service (Paas) Fees	\$	387,917	\$	1,037,891	\$	387,917	\$	378,456	
Software Purchase/License or Software as a Service (Saas) Fees	\$	7,277,755	\$	2,476,204	\$	1,077,547	\$	-	
IDR Staff (salaries & benefits)	\$	4,655,005	\$	3,491,253	\$	6,400,631	\$	6,812,202	
OCIO and Vendor IT Contractors	\$	12,293,021	\$	3,995,906	\$	15,848,927	\$	13,876,707	
System Integrator	\$	123,917,945	\$	59,480,613	\$	83,644,613	\$	-	
Management Support and Program Assurance/IV&V	\$	6,637,737	\$	6,637,737	\$	6,637,737	\$	-	
Agency Facilities	\$	-	\$	-	\$	538,774	\$	-	
Training and Outreach	\$	906,217	\$	906,217	\$	237,060	\$	315,380	
Contingency of 15%	\$	23,359,880	\$	11,652,413	\$	17,164,521	\$	3,207,412	
Post Implementation Costs (5 years)	\$	80,775,339	\$	37,957,842	\$	81,886,380	\$	232,427,325	
Hardware Purchase/Platform as a Service (Paas) Fees	\$	-	\$	-	\$	6,211,201	\$	16,529,707	
Software Purchase/License or Software as a Service (Saas) Fees	\$	63,363,141	\$	21,558,854	\$	-	\$	28,736,939	
IDR Staff (salaries & benefits)	\$	5,066,049	\$	5,066,049	\$	3,039,629	\$	6,741,072	
OCIO and Vendor IT Contractors	\$	10,319,730	\$	10,319,730	\$	20,639,459	\$	110,233,015	
OCIO Utility Charges	\$	-	\$	-	\$	45,241,357	\$	60,199,819	
Agency Facilities	\$	-	\$	-	\$	4,690,786	\$	6,241,733	
Training and other	\$	2,026,420	\$	1,013,210	\$	2,063,946	\$	3,745,040	
O&M Legacy Retirement Support (5-year implementation)	\$	95,449,938	\$	95,449,938	\$	95,449,938		N/A	
IDR Staff (salaries & benefits)	\$	3,449,378	\$	3,449,378	\$	3,449,378			
OCIO and Vendor IT Contractors	\$	56,405,766	\$	56,405,766	\$	56,405,766			
OCIO Utility Charges	\$	30,803,992	\$	30,803,992	\$	30,803,992			
Failover and Staging Hardware	\$	1,596,934	\$	1,596,934	\$	1,596,934			
Agency Facilities	\$	3,193,868	\$	3,193,868	\$	3,193,868			
Total Cost (with 2.5% inflation)	\$	355,660,752	\$	223,086,016	\$	309,274,045	\$	257,017,481	
ROI (cost savings compared to incremental improvements - Option 4)		-28%		15%		-17%			

Financial Analysis of Tax System Modernization



IDR will realize significant cost savings during steady state operations, years 7 through 11

Options Cost Comparison: Total Project Cost Over Five Years and Payback Period





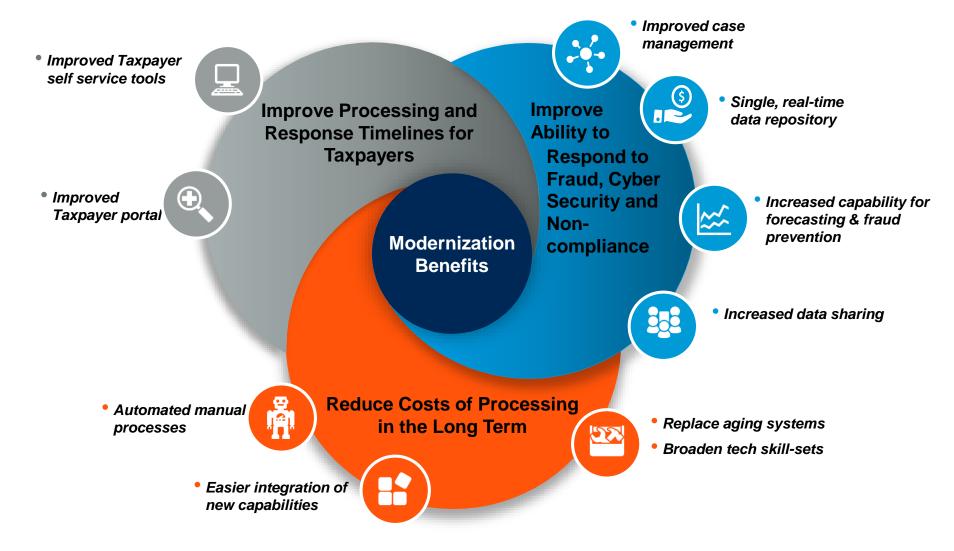
Estimated Investment Request for Tax Modernization, by Fiscal Year

- An initial investment of approximately \$90M over a 5-year period will be required.
- This investment will be used to procure and implement a modern integrated tax processing system from a single vendor.
- The estimated investment allocation by fiscal year is depicted in this table.

Fiscal Year	Amount
FY 2020 (Procurement)	\$1.7 M
FY 2021	\$16.8M
FY 2022	\$17.2M
FY 2023	\$17.6M
FY 2024	\$18.1M
FY 2025	\$18.5M
TOTAL	\$89.9M



Modernization provides 3 major types of key benefits





Taxpayers will benefit as their interactions will be of higher quality

IDR Constituent	What do they gain from an integrated tax system?				
Tax Professionals	 Consolidated data will allow an easier way to analyze and review all information in one place to gain a comprehensive understanding of each client's tax situation. 				
	 Single tax portal will increase efficiency. Taxpayers will more easily authorize information access and decision making by tax professionals, reducing processing and correspondence delays. 				
Business/ Individual Taxpayers	 Ability to see in one place all permits, obligations, timelines for payments, correspondence and answers to questions. 				
	Easy and timely interactions with IDR will lead to improved compliance.				
	 Improved correspondence management will enable IDR to better track and manage interactions. 				
Bulk Filers	Special forms with pre-determined schema and electronic filing instructions will support quicker uploading and more efficient interactions with IDR via a customized portal.				
Local Governments/ Government Agencies	More precise, timely collaboration for the administration of various taxes.				
Elected Officials and Their Staff	 Availability of better quality data for analysis purposes will facilitate timelier input into budget or other discussions with the legislature. 				



Next Steps

Gartner recommends that IDR work with OCIO to develop a technology Request for Proposal (RFP) to accurately assess the vendor marketplace and procure the most appropriate single vendor solution for a modern integrated tax system. The RFP will start the document trail that will lead to a legal contract.

- Gartner has identified three key steps in structuring a successful RFP process.
 - Architect a viable solution: In this step IDR and OCIO will document business context, product functional and nonfunctional
 requirements and any existing constraints so that vendors can design a viable solution with suitable delivery model and optimal pricing.
 - Schedule and prioritize activities: The execution of this step will provide RFP recipients a list of activities, anticipated timelines and
 evaluation criteria so that they can prioritize and assemble their best team to create a response and showcase their abilities.
 - Respond in a consistent manner: In this step IDR and OCIO will develop provider response templates to allow for effective comparison of submitted proposals.

To flawlessly execute the steps outlined above, Gartner advises that IDR complete an **Organizational Readiness Assessment**. Its purpose is:

- Assess the preparedness of IDR to effectively execute the modernization project.
- Create a roadmap to address any areas in need of further attention.

This effort includes analysis of IDR's vision and strategy, organization and skills, governance, project management, systems and technology support, and data quality.

