ADASTRA

Public Sector

Adastra's Key Public Sector Clients

City of Kelowna

The City of Victoria

Ottawa

Region of Peel
working with you

METROLINX

CATSA ACSTA

IDRC · CRDI
International Development Research Centre
Centre de recherches pour le développement international

Fisheries and Oceans Canada

Public Health Agency of Canada

Global Affairs Canada

Canada Border Services Agency

Morale & Welfare Services Canada
Services Bien-être et moral FC

Correctional Service Canada

Calgary

Regina Police Service

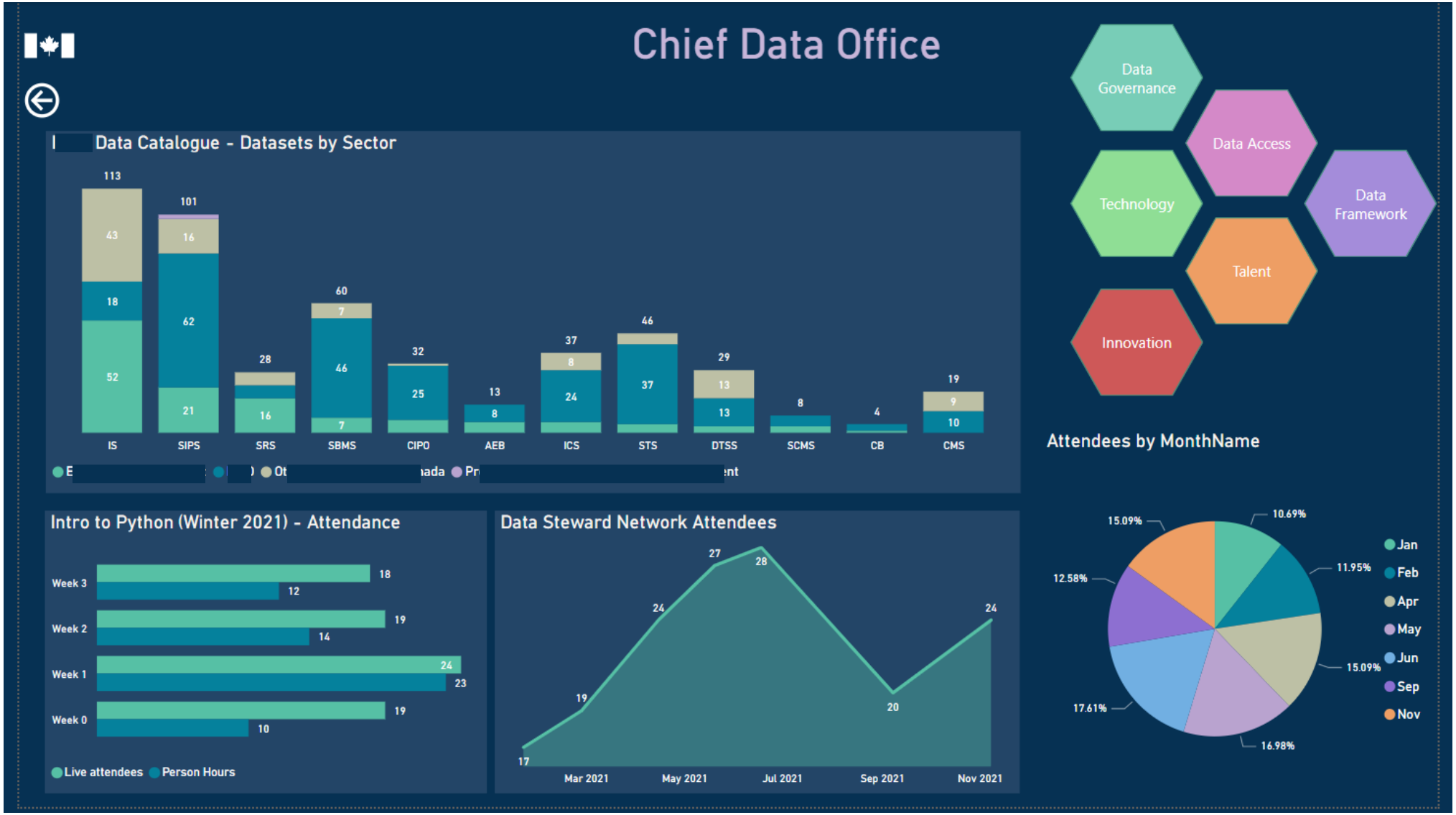
Durham Region

Adastra's Public Sector Offers

Public Sector Offers	
Azure Landing Zone	Establish Azure core strategic design for data center migration, to enable app, data, and analytics migration to cloud, through a well governed cloud adoption framework. Covers all tenant, network, security, and governance considerations. Considers data sovereignty and regulatory requirements (GDRP, Protected B).
Azure Data Center Migration	Retire your on-premise data center infrastructure, via all up Azure data center migration. Migration systems, apps, and data via modernization or lift / shift approach. Leverage Adastra migration framework for accelerated transition. Achieve strategic agility and lower technical debt related to data center operation.
App Modernization Roadmap	Through Adastra discovery, define an app catalog for migration to Azure. Identify varying techniques (lift / shift, modernize, hybrid) by app, based on cost / benefit assessment. Provide TCO for cloud implementation, with long term ROI comparing migration / future costs to current costs. Roadmap the journey.
Power BI Conversion	Leverage Adastra's Power BI conversion framework, to migrate off current BI analysis and reporting platform to Power BI. Adastra will size and roadmap the conversion, then execute efficiently using conversion techniques. Covers all common government source platforms; SSRS, Cognos, Business Objects, Mstr, …
Purview Data Catalog	Enable data insights via a new data catalog, covering assets, classification, lineage, and glossary. Deploy Purview in two phases; phase one establishes the platform and incorporates 5 data sources to prove value, then phase two scales the platform to remaining data sources. Enables organizational value from data.
Cloud ATO Audit	Ensure Architecture Review Board approval and readiness for Azure modernization. Prepare design, governance, and roadmap specification to show all government requirements are met through the cloud modernization platform. Certify architecture pattern for deployment at scale.
Document Translation	Leverage Azure Cognitive Services to enable translation of unstructured document data to different languages, to ensure consistent service delivery for all staff and citizens regardless of language. Deploy at scale covering millions of artefacts through automated translation, with custom NLP training for complex topics.
Document Validation / Scoring	Automatically verify and score citizen provided documents, to verify validity and enable consistent analysis by government agents. Examples include proof of vaccine documentation, proof of identity documentation, etc. Reduces risk of fraud and inconsistent evaluation by agents, through advanced analytics.
Enterprise Search	Facilitate intelligent search and analysis on unstructured data, unlocking insights from difficult to access information. Enables classification and categorization of unstructured data, easy location of critical documents, and insights from difficult to access unstructured data.
ESRI Modernization	Deploy ESRI application to Azure, to modernize infrastructure and facilitate agile performance and lower operating costs for your ESRI platform. Leverage Adastra's proven framework for hosting ESRI in Azure, covering ARCGIS portal, server, relational / file / big data stores, geoanalytics, geoevents, etc. tiers.
Call Center Analytics	Enable analytics and sentiment analysis for government support call centers, to better evaluate effectiveness of service for citizens. Enables trainable NLP, to transcribe sound while redacting PII data, evaluate sentiment and classify transcriptions, and provide analytical dashboards to call center stakeholders.
Field IoT Analysis	Monitor government managed infrastructure via sensors and IoT integration to Azure. Covers facilities, fleets, services, and environmental sources. For example, monitor and analyze water main use to enable capacity planning and predictive maintenance. Incorporates Azure IoT Portal for simple setup and maintenance.
Citizen IAM via Azure B2C	Create a centralized identity access management solution, where all public digital properties authentication through. Simplifies authentication services for digital apps, enables a Citizen 360 view, supports cross service citizen value, and simplifies citizen engagement across services.
Pedestrian Safety Analytics	Use Adastra advanced analytics framework to evaluate pedestrian historical safety incidents against safety mitigations. Through trained models, recommends new safety mitigation steps (crosswalks, speed bumps, speed safety zones, …), to improve citizen safety outcomes through high return targeted investments.
Growth Forecasting	Use Adastra advanced analytics framework to predict future development growth, using trained history. Predicts where future development will likely occur, to enable proactive service development (roads, water, sewage, etc.) in anticipation of future need. Creates proactive, rather then reactive, service delivery.
OptiRoute	Leverage Adastra OptiRoute to optimize fleet utilization (public transit, waste services, road maintenance, etc). Achieves efficiency improvements of 5% to 25% by using advanced analytics to plan fleet routes more effectively. Deployed to Azure and leverage trained and proven public sector fleet ML models.

Public Sector Analytics Examples

Analytics @ Federal Department



PLANNED PAYMENTS FOR A SELECTED PERIOD

Admin Unit	Resp Officer	Admin Officer	Program	Paymen...	Comp Status Reason	Zero Amounts	Year, Quar...	Date Range
All	All	All	All	All	All	All	All	1/1/2011 – 3/31/2040

Prog. Name	Project #	Admin Unit	Payment Type	Project Title	Comp #	Institution Name	Milestone Number	End of Milestone Reporting Period	Report Due Date	Planned payment date	Amount Scheduled	Fin Report	Tech Report	Responsible Officer	Admin Officer	GAD Admin	Custom Notes
DIF	106061	PPB/DGPP	Automatic Payments (subject to previous reports' completeness)	[illegible]	002	[illegible]	0				$0	No	No	crmadm #	[illegible]	[illegible]	
DIF	106061	PPB/DGPP	Payments Awaiting Report(s)	[illegible]	002	[illegible]	12	2011-04-01	2011-05-01	2011-06-01	$0	No	Yes	crmadm #	[illegible]	[illegible]	
DIF	106061	PPB/DGPP	Payments Awaiting Report(s)	[illegible]	002	[illegible]	24	2012-04-01	2012-05-01	2012-06-01	$0	No	Yes	crmadm #	[illegible]	[illegible]	
Total											**$222,148,437**						**593**

Custom Note Type	First NoteName	Created by	Modified by	Note
Financial	1(Fi	S(	S(	Lin pr(y2(Let pr(Re(uar %20
General Notes	1(	A(	A	Re(

CRM0273 - Planned Payments for a Selected Period - Last revised on 2022-19-05

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Analytics @ Federal Research Centre

PROJECT EXPENDITURE SUMMARY BY PA AND PI

SELECTED FISCAL YEAR: 2017 2018 2019 2020 2021 2022 2023

Initiative: All

Project Number: All

CalendarDate: 1/1/2017 5/20/2022

ProgramAreaName	RAP Amount	CAP Amount	Amount	Internal Expenses	ExternalExpenses	EFP INT	EFP EXT	INT Ops	INT Non Ops	EXT Ops	EXT Non Op
F tegy											
	156,501,064.04	12,994,948.62	169,496,012.66	74,915,528.95	3,983,974.58	10,998,992.61	79,597,516.52	1,176,547.11	84,737,974.45	5,916,860.40	77,664,
	158,706,562.45	15,259,880.10	173,966,442.55	73,016,338.93	0.00	29,084,607.58	71,865,496.04	4,366,335.11	97,734,611.40	7,595,584.73	64,269,
	57,970,095.01	3,534,708.13	61,504,803.14	49,277,426.13	0.00	1,352,018.15	10,875,358.86	154,542.19	50,474,902.09	1,753,053.14	9,122,
	121,262,421.04	16,328,752.39	137,591,173.43	57,933,990.75	0.00	44,730,316.73	34,926,865.95	4,386,641.08	98,277,666.40	5,878,818.95	29,048,
	61,748,921.56	1,490,315.58	63,239,237.14	59,303,912.53	0.00	1,010,127.86	2,925,196.75	104,982.91	60,209,057.48	449,485.54	2,475,
	556,189,064.10	**49,608,604.82**	**605,797,668.92**	**314,447,197.29**	**3,983,974.58**	**87,176,062.93**	**200,190,434.12**	**10,189,048.40**	**391,434,211.82**	**21,593,802.76**	**182,580,**
F											
	535,819.07	87,972.29	623,791.36	623,791.36	0.00	0.00	0.00	0.00	623,791.36	0.00	
	59,348,083.25	2,559,159.55	61,907,242.80	61,907,242.80	0.00	0.00	0.00	0.00	61,907,242.80	0.00	
	1,561,447.15	4,632,197.01	6,193,644.16	6,193,644.16	0.00	0.00	0.00	0.00	6,193,644.16	0.00	
TOTAL	**61,445,349.47**	**7,279,328.85**	**68,724,678.32**	**68,724,678.32**	**0.00**	**0.00**	**0.00**	**0.00**	**68,724,678.32**	**0.00**	
TOTAL	**617,634,413.57**	**56,887,933.67**	**674,522,347.24**	**383,171,875.61**	**3,983,974.58**	**87,176,062.93**	**200,190,434.12**	**10,189,048.40**	**460,158,890.14**	**21,593,802.76**	**182,580,6**

CRM0088 - Project Expenditure Summary by PA - PI - CMaione Last Revision 2022-25-05

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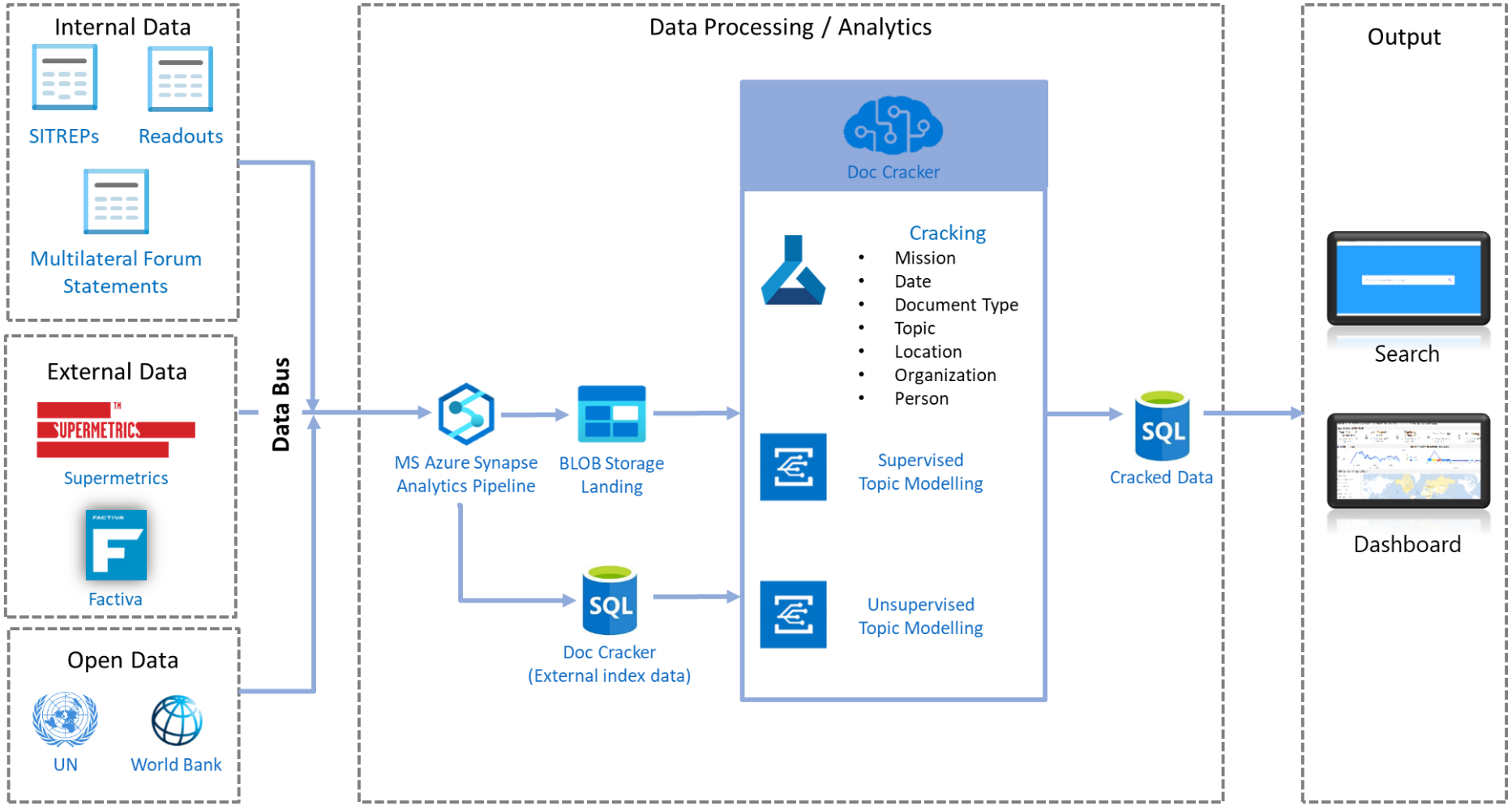
Intelligent Search @ Global Affairs

Presentation title



Adastra Azure Modernization Assessment @ Regional Municipality

Short-Term Wins / Long-Term Wins

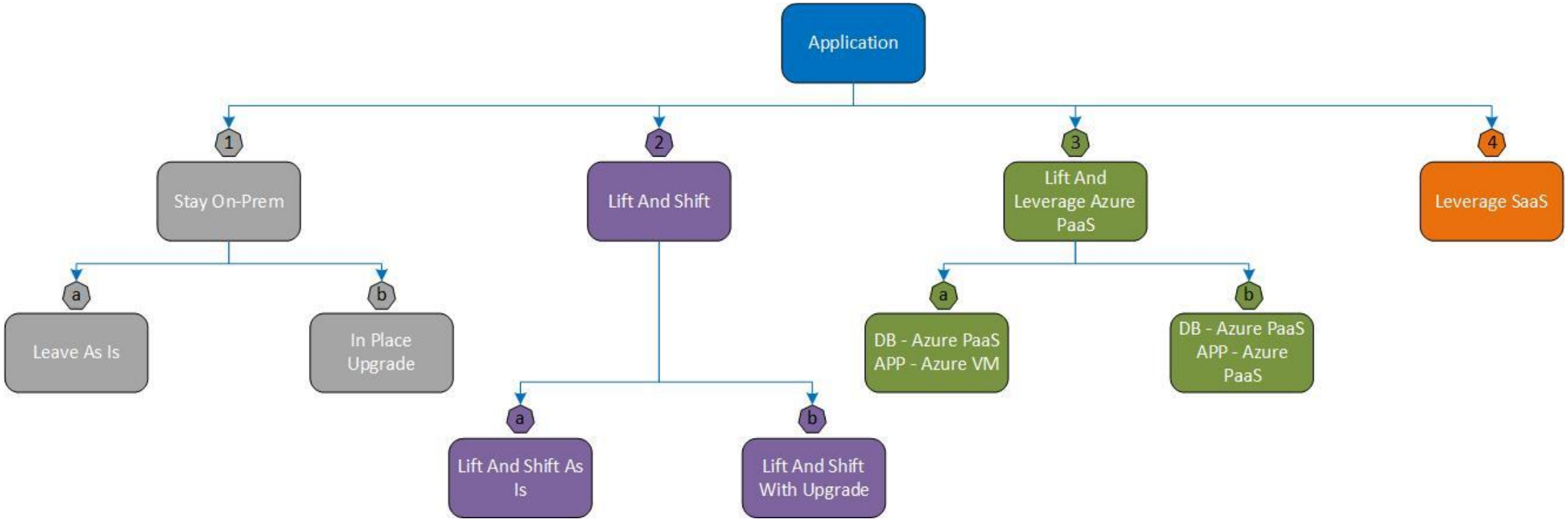
Short-Term Wins (8 months)

- Significant infrastructure **cost reduction** by decommission of retired servers and host on cloud.
- 3 years **extended support** for Windows 2008/R2 with key benefit of Azure.
- Reduced effort / cost **disaster recovery and backup** services.
- Benefit from Azure's default **governance services.**

Long-Term Wins (3 years)

- **Modernized scalable** application with no dependency on legacy applications.
- **Digitalized** application with **centralized analytics** and **visualization** .
- **Data hub** strategy for integration points.
- Support of on-prem and cloud **monitoring** for application, infrastructure and network.
- **Reduced** overall **TCO.**

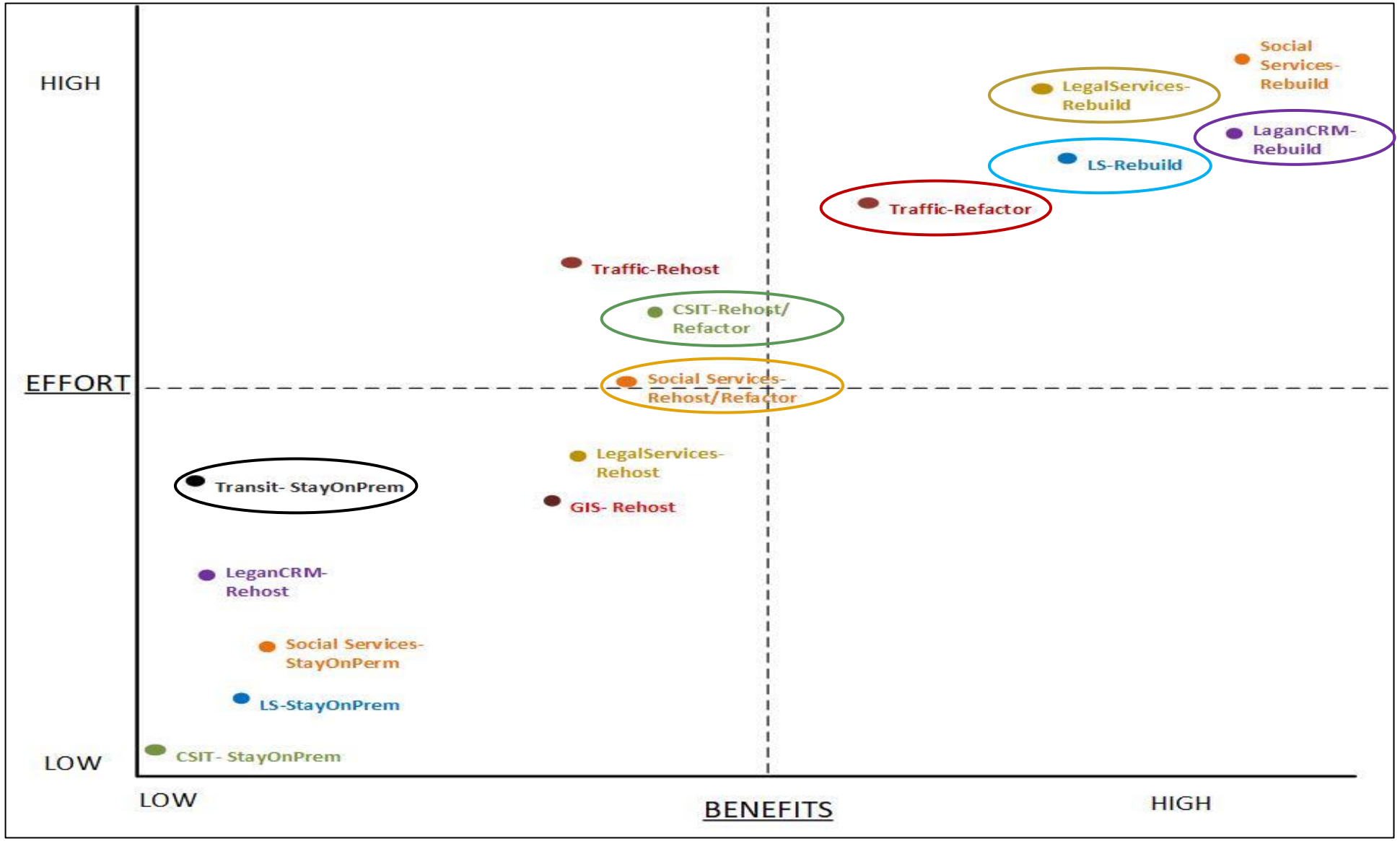
Migration Decision Tree @ Regional Municipality



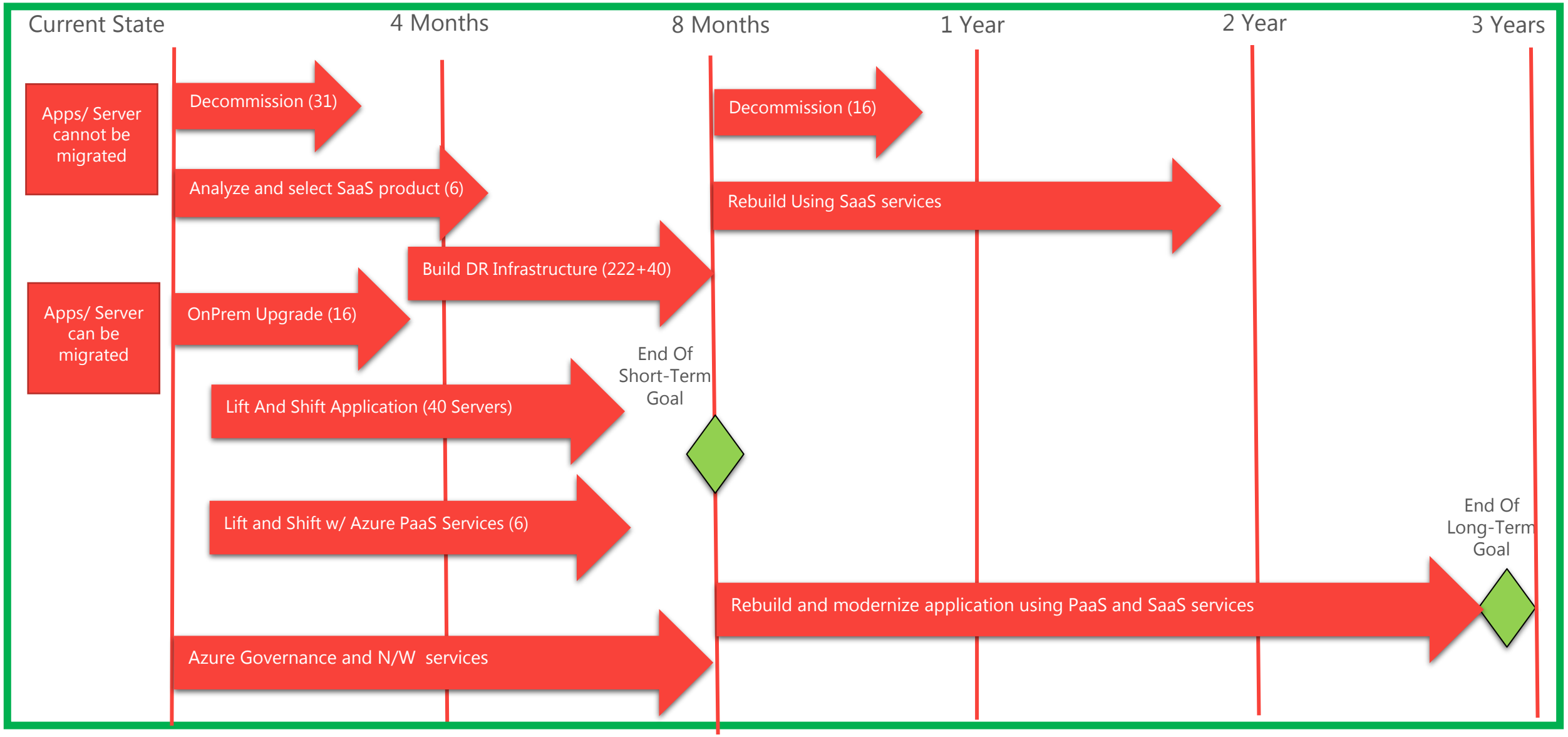
Migration Catalog @ Regional Municipality

CSIT_Appliation_Name	OSname	VI_Type	Priority	Short-Term	Long-Term
CSIT - Auditing Server running Netrix Application	Win 2008 R2	Virtual	P3/P4	2a-LiftAndShift	3b Rebuild Use Azure Governance PaaS Services, Azure Sentinel and Azure monitoring
CSIT - MS Remote Desktop Services Licensing	Win 2008 R2	Virtual		2a-LiftAndShift	Decomission
CSIT - NetBackup Server	Win 2008 R2	Physical	P2	2a-LiftAndShift	3b: Rebuild Use Azure Site Recovery and Azure Back Up
CSIT - NetBackup Server	Win 2008 R2	Physical	P2	2a-LiftAndShift	3b: Rebuild Use Azure Site Recovery and Azure Back Up
CSIT NetBackup Master Server	Win 2008 R2	Physical	P2	2a-LiftAndShift	3b: Rebuild Use Azure Site Recovery
CSIT NetWrix Auditing	Win 2008 R2	Virtual	P3/P4	2a-LiftAndShift	3b Rebuild Use Azure Governance services
CSIT Production Team Foundation	Win 2008 R2	Virtual	P3	2a-LiftAndShift	3b Refactor-DevOps with Git repo
CSIT Test Team Foundation	Win 2008 R2	Virtual	P3	2a-LiftAndShift	3b Refactor-DevOps with Git repo
IP Monitor 8	Win 2003	Physical	P2	1b-In Place Upgrade/3b- Rebuild	3b Rebuild Use Azure Governance PaaS Services, Azure monitoring
Oracle 10g Database Service Production	Win 2003	Physical	P4	1b-In Place Upgrade/3a- Refactor	Decomission
Oracle 10g, 11g Database Service Staging	Win 2008 R2	Physical	P4	1b-In Place Upgrade	Decomission
Oracle 11g Database Service Production	Win 2003	Physical	P4	1b-In Place Upgrade/3a- Refactor	Decomission
Oracle 9i Database Service Production	Win 2003 R2	Physical	P4	1b-In Place Upgrade/3a- Refactor	Decomission
Visual Studio Team Server Database Service P	Win 2008 R2	Virtual	P4	2a-LiftAndShift	3b Refactor-DevOps with Git repo
Visual Studio Team Server Database Service S	Win 2008 R2	Virtual	P4	2a-LiftAndShift	3b Refactor-DevOps with Git repo
VMS FTP Service	Win 2008 R2	Virtual	P3	2a-LiftAndShift	3b Refactor- Azure Storage
Water Billing Charon Host	Win 2008 R2	Physical	P2	2a-LiftAndShift	3b- Rebuild Use Datalake and PowerBI
Water Billing Charon Host	Win 2008 R2	Physical	P2	2a-LiftAndShift	3b- Rebuild Use Datalake and PowerBI
CRM_Appliation_Name	**OSname**	**VI_Type**	**Priority**	**Short-Term**	**Long Term**
CRM - FrontLink Server - Clerks	Win 2003	Physical	P2	1a- LeaveAsIs	Rebuild - SaaS Dynamics 365- CRM
CRM Database - Clerks	Win 2003	Physical	P2	1a- LeaveAsIs	Rebuild - SaaS Dynamics 365- CRM
Lagan Database Services 2 Production	Win 2003	Physical	P2	1a- LeaveAsIs	Rebuild - SaaS Dynamics 365- CRM
Lagan Database Services 3 Production	Win 2003	Physical	P2	1a- LeaveAsIs	Rebuild - SaaS Dynamics 365- CRM
Lagan Database Services 5 Production	Win 2003	Physical	P2	1a- LeaveAsIs	Rebuild - SaaS Dynamics 365- CRM
SS_Application_Name	**OSname**	**VI_Type**	**Priority**	**Short-Term**	**Long Term**
Chubb Application for Water St	Win 2008 R2	Physical	P4	1b -InPlace/2a-LiftAndShift	3a: Refactor- App VM and SQL MI as PaaS
HQ Chubb	Win 2008 R2	Physical	P4	1b -InPlace/2a-LiftAndShift	3a: Refactor- App VM and SQL MI as PaaS
LTC - Emar application	Win 2003	Virtual	P3	1b -InPlace (Vendor Support)	
LTC Conexall System at Hillsdale Estates	Win 2008 R2	Physical	P3	2a-LiftAndShift	3a: Refactor- App VM and SQL MI as PaaS
LTC Conexall System at Hillsdale Terraces	Win 2008 R2	Physical	P3	2a-LiftAndShift	3a: Refactor- App VM and SQL MI as PaaS
LTC Conexall System at Lakeview	Win 2008 R2	Physical	P3	2a-LiftAndShift	3a: Refactor- App VM and SQL MI as PaaS

Migration Effort / Benefit Matrix



Migration Roadmap @ Regional Municipality



Azure Analytics Assessment Offer

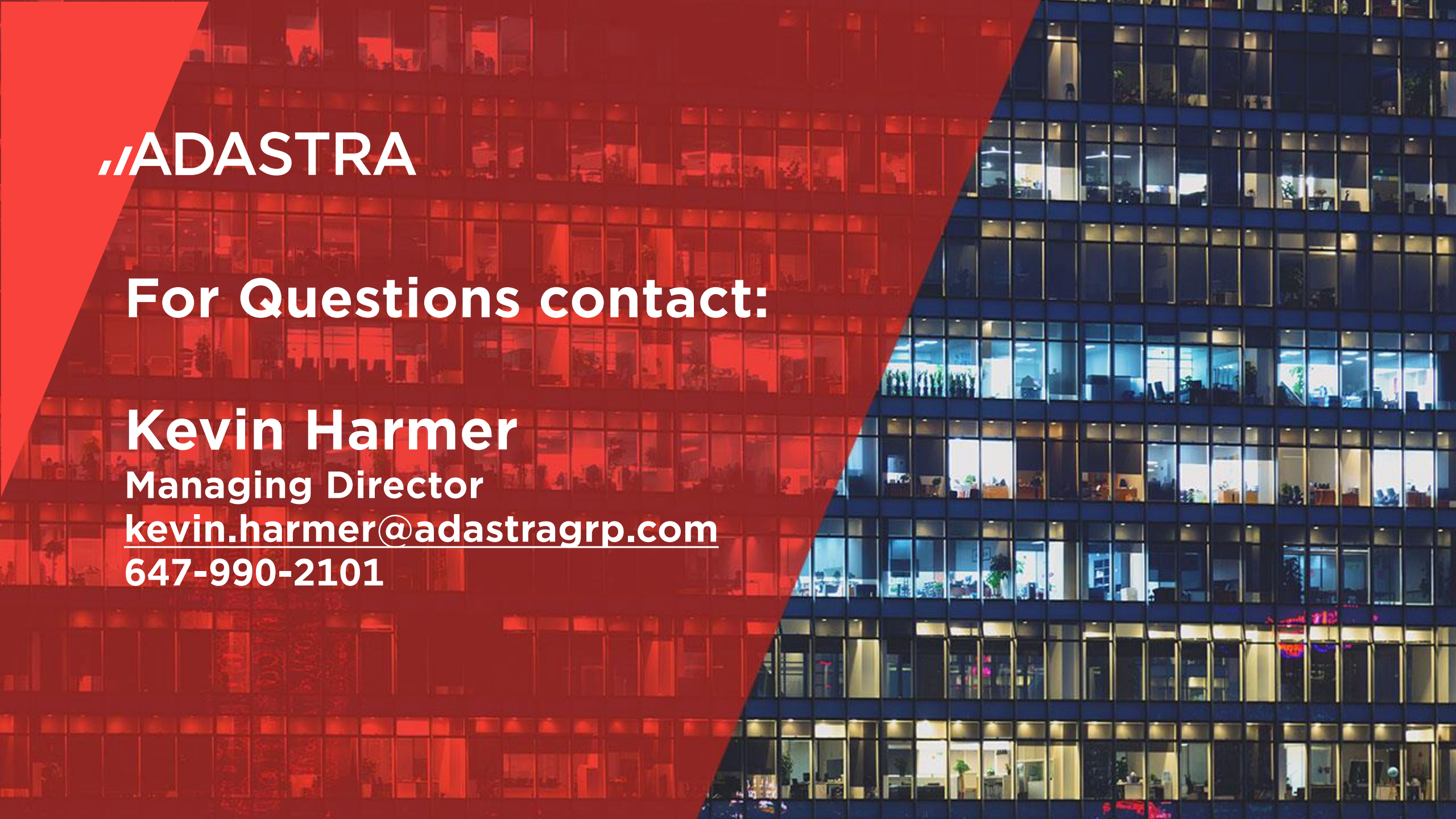
Purpose

Evaluate current analytics state and propose a modern analytics cloud architecture and roadmap.

Scope / Cost

- Perform analytics current state discovery and determine future analytics goals
- Define future state Azure service architecture
- Define future state Azure network architecture
- Estimate Azure run cost for future state architecture
- Identify technical governance approach for security, dlp, bc/dr, recovery, monitoring, and devops
- Define roadmap to achieve future state analytic goals aligned to business priorities
- Define plan / resources / cost to achieve future state
- Pilot Solution

Adastra will provide one senior Azure analytics architect for 5 weeks (25 days) to execute the assessment / small pilot.
Assessment Cost: estimated $35k USD



ADASTRA

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