

Welcome to the Webinar hosted by Circuitry.ai: Optimize Outcomes with Decisions Powered by Al

With Panelists:

- Dr. Lorien Pratt, Author & Advisor on DI
- Ashok Kartham, Founder & CEO, Circuitry.ai

Moderated by: Rod Langohr



Decision Intelligence Webinar

March 12, 2024

ABOUT CIRCUITRY.AI



Al as a Service (SaaS)

Enterprise AI as a Service applications to Analyze, Augment, and Automate impactful, recurring, and operational decisions



Decision Intelligence

(Ptisit on the secure of the s



Intelligent Automation

Infuse Intelligence into Business Applications, Processes, and Workflows to enable Fully Autonomous Business (FAB).



WEBINAR PRESENTERS



Ashok Kartham

Founder & CEO Circuitry.ai

Founder and CEO of multiple enterprise software companies. 25+ years of experience as the leader in digital transformation using Cloud, Mobile, and Al.



Dr Loraine Pratt

Decision Intelligence Advisor

Author of Decision Intelligence Handbook and DI Advisor for Circuitry.ai. Dr. Pratt has over four decades of applied machine learning experience.

WHAT IS DECISION INTELLIGENCE?



Decision Intelligence is about how actions lead to outcomes. It is a discipline that:



Align on desired outcomes

Helps your team to align around desired outcomes and available actions



Understand actions

Helps people who understand actions and outcomes to communicate their needs to technical people



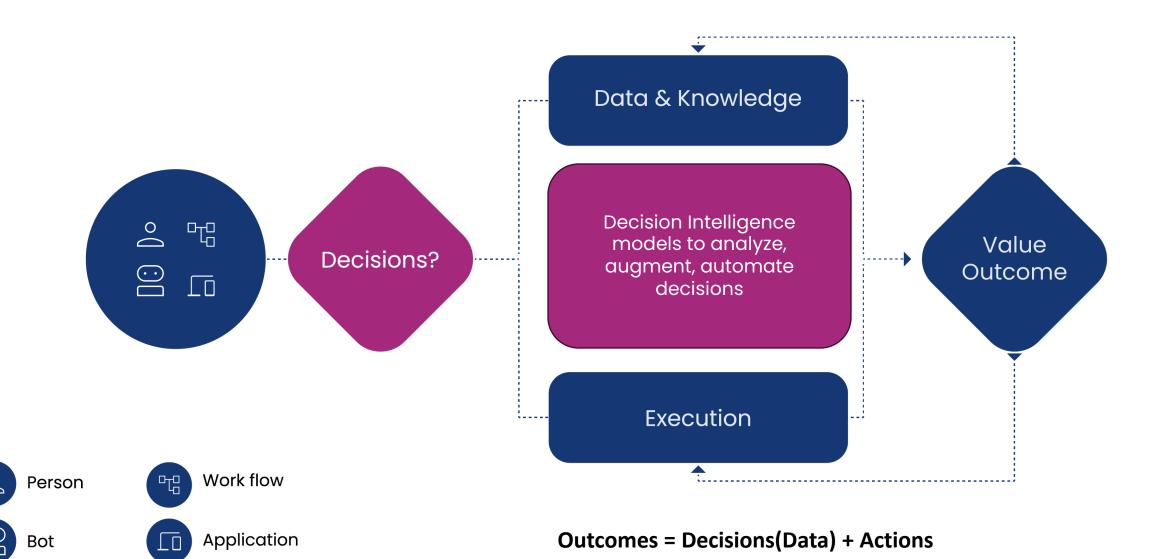
Integrate multiple technologies and disciplines

Helps those technical people to integrate multiple advanced technologies and disciplines (including artificial intelligence, behavioral economics, simulation, data, business intelligence, and more) in such a way to maximize the impact on desired outcomes

DECISION CIRCUIT

0

Decision Intelligence to optimize outcomes targeted to a specific industry, domain, and decision cases.



Ç. circuitry.ai

WHAT KINDS OF DECISIONS DOES DI ADDRESS?



determine the best actions that

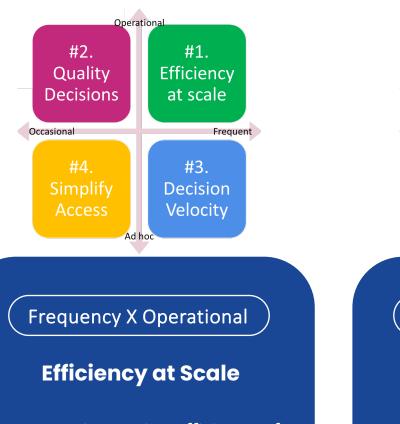
lead to outcomes

AI/ML AI/ML **Classification Decisions Regression Decisions** Action-to-Outcome Decisions An unmet need: People need systems that help them

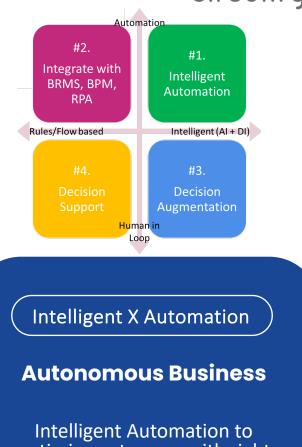
"Decisions that"

DECISION SELECTION & PRIORITIZATION ?





Focus on improving efficiency of repeat operational decisions with DI. DI can enhance the quality, velocity, and consistency of all decisions.



Intelligent Automation to optimize outcomes with right governance. Support, and Augment other decisions with human in the loop.

BENEFITS OF DECISION INTELLIGENCE





Optimal Outcomes

Grow sales, cut costs, increase customer retention, and allocate the resources effectively by optimizing decision-making during the entire customer lifecycle.



Efficiently at Scale

Improve efficiency and productivity of the knowledge workers by empowering them with prescriptive analytics, best recommendations, and executable actions.



Quality Decisions

Improve the quality and consistency of decisions at all levels with Decision Orchestration Center to model, execute, and monitor decision flows.



Intelligent Automation

Integrate seamlessly with existing applications, workflows, and Robotic Process Automation (RPA) to infuse intelligence at critical decision points.

DECISIONS POWERED BY AI

"

Decision Intelligence relies on AI for natural language processing (NLP), predictive & prescriptive analytics, Inference & recommendation engines, optimization algorithms, Simulation & Scenario analysis, and continuous learning.





Informed by Knowledge

GenAl makes the knowledge accessible to all stakeholders involved in decision making.



Predict Outcomes

Use decision models, composite AI methods, and simulations to predict outcomes, and recommend actions.



circuitry.ai

Intelligent Automation

Automate by infusing intelligence into existing applications, processes, and workflows to optimize outcomes.

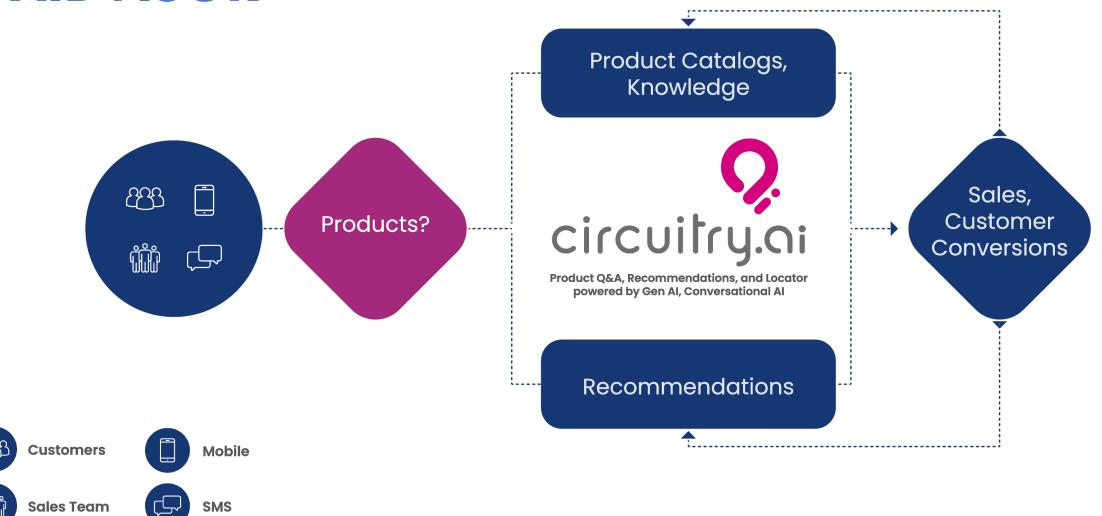


Decision Intelligence Use Case Examples

Level	Objective	Capabilities	Example Use Cases
Decision Support	Enhance human decision- making with data-driven insights.	 Data Integration Analytics Tools Dashboards and Reporting Training and Data-Driven Culture 	 Sales forecasting Customer segmentation Inventory management Quality Analysis
Decision Augmentation	Augment human decision- making by providing predictive insights and recommendations.	 Advanced Analytics and Machine Learning Recommendation Systems User Interaction Feedback Loops 	 Product Advisor Service/Parts Advisors Personalized marketing Dynamic pricing strategies Predictive maintenance
Decision Automation	Automate decision-making processes for specific, well- defined tasks.	 Rule-Based Systems Autonomous Al Systems Monitoring and Oversight Continuous Learning 	 Fraud detection Real-time resource allocation Autonomous customer service chatbots

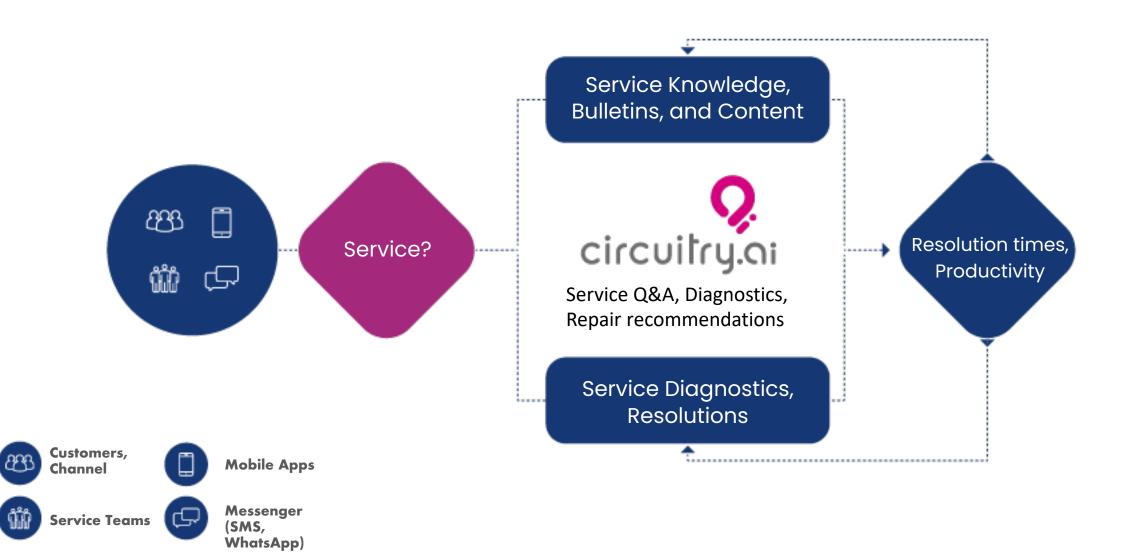
PRODUCT AIDVISOR

Intelligent Product Advisor to answer questions, recommend products, and enable sales with conversational experience for your customers and sales teams on all channels.



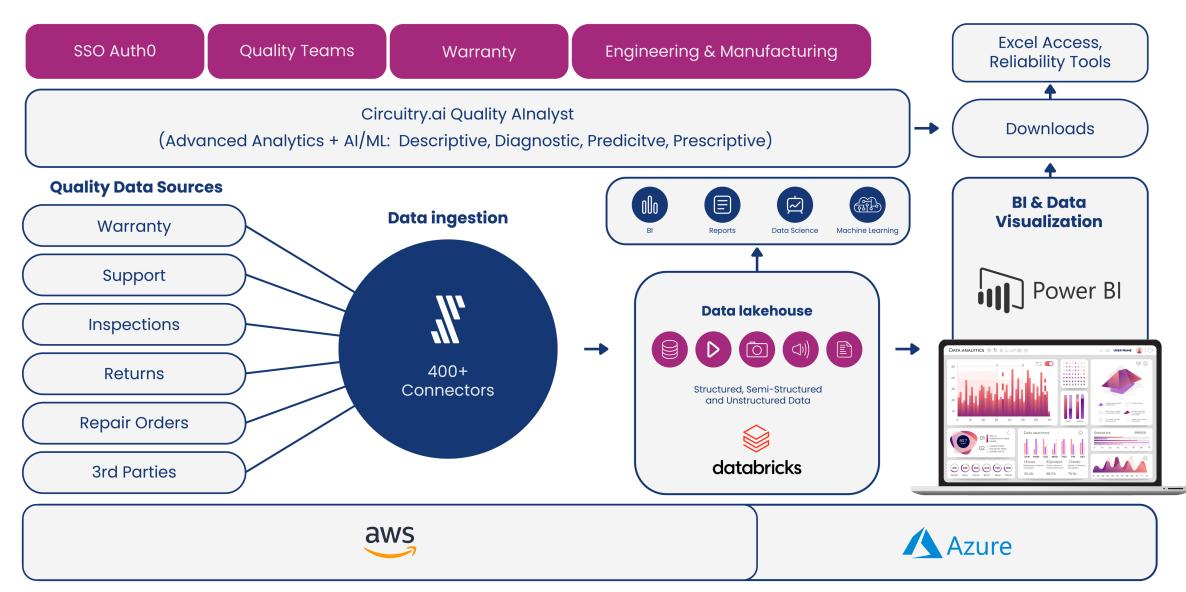
SERVICE AIDVISOR

Intelligent Service Advisor to help service technicians and teams to get help and answers on service diagnostics, service procedures, and repair recommendations.



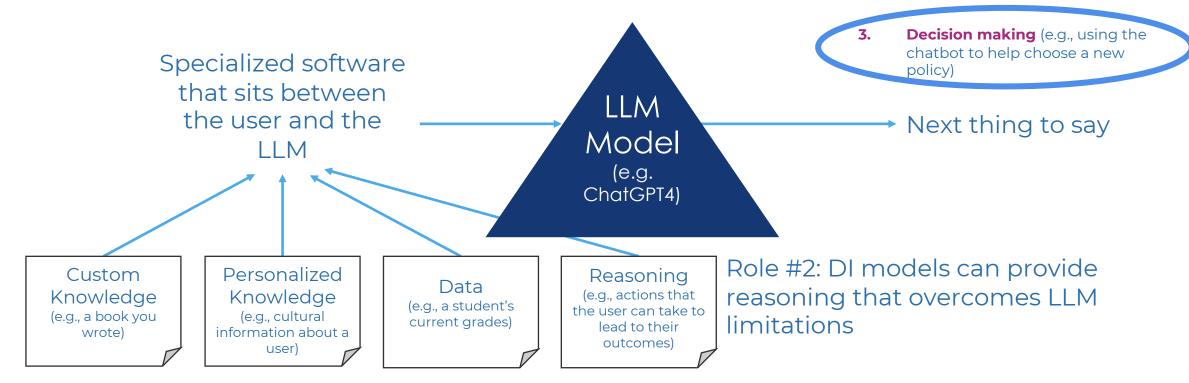
QUALITY AINALYST: ARCHITECTED TO ENABLE ADVANCED QUALITY INTELLIGENCE

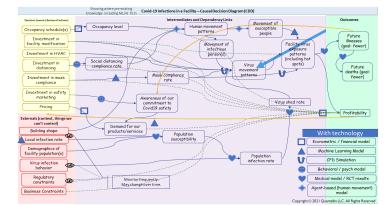




WHAT ROLES DOES GENERATIVE AI PLAY IN DECISION INTELLIGENCE?





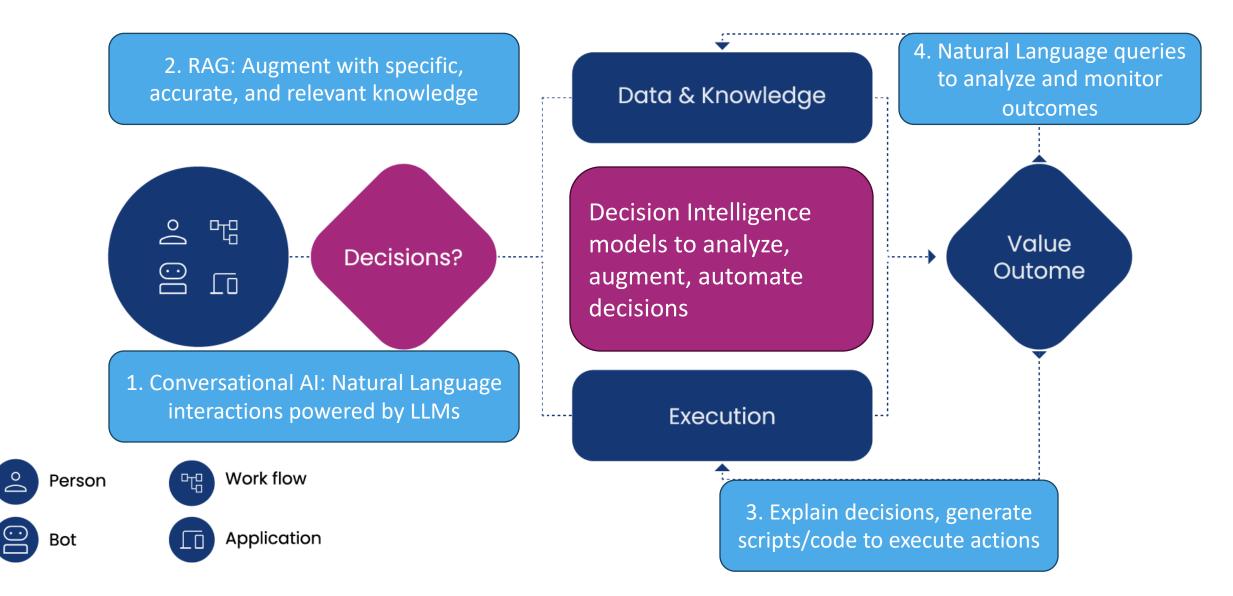


Role #1: GenAl makes suggestions for actions, outcomes, and

more

GenAI DECISIONS

Generative AI (GenAI) augments AI with natural language conversations, augmented knowledge, and decision automation circuity.oi



DI SUCCESS FACTORS

Select right use cases, decision intelligence platform, business model, and partners.

"

Success factors for decision intelligence (DI) hinge on selecting highvalue, feasible use cases and leveraging Enterprise AI as a Service to minimize investment and risk. Choosing the right DI partner with relevant industry and domain expertise tailored to your use cases is crucial. Adopting a phased approach allows the model to evolve through analysis, augmentation, and automation of decisions.



Use Cases: Select right use cases with high business value and high feasibility



DI as a Service: Leverage the Enterprise AI as a Service model to reduce the investment, and risk



DI Partner: Right partner based on your industry, domain expertise, and use cases



Phased approach: Evolve the model to analyze, augment, and automate decisions.



(스) Google Cloud



Integrate: Infuse Intelligence by integrating with existing Apps, Workflows, and RPA

(\$) OpenAl



Optimize: Continuously monitor and refine decision models to optimize business outcomes.

DI AS A SERVICE

SaaS	Legacy Apps	Mobile Apps	RPA	
Decision Circuits				
Decision Intelligence Platform				
Commercial AI Tools		Opensource AI Tools		
Foundation Models				
AI Cloud Providers AWS, MS Azure, Google, NVidia				
		Decision Decision Intelli Commercial AI Tools Foundation AI Cloud	Decision Circuits Decision Intelligence Platform Commercial AI Tools Foundation Models AI Cloud Providers	

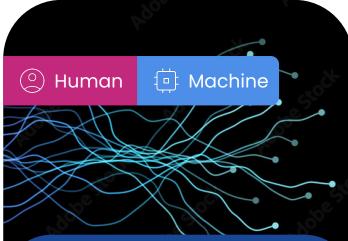
ANALYZE, AUGMENT, AND AUTOMATE

Decision Alnalyst

Analyze

- Segment/Clustering
- Decision Trees
- Anomaly detection
- Diagnostics

🔘 Human



Decision Aldvisor

Augment

- Recommendations
- Next Actions
- Predictions
- Forecast



Automate

- Decisions
- Actions
- Triggers
- Allocation

HOW TO CALCULATE AND REALIZE ROI FROM DI?



- Start with "low hanging fruit" value:
 - DI can radically reduce your data management costs.
 - Why: 10% of the data has 90% of the value. DI will help you to determine which is the 10%. Learn More (<u>https://bit.ly/freedil</u>)
- Focus on "intangible" value:
 - Simply drawing a DI diagram can help your team to all pull in the same direction, increasing productive across the board
- Use DI to determine how to use AI/ML for competitive advantage

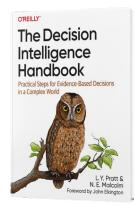


Benefit	Description	Value
Increased Revenue	Increased sales from enhanced marketing, product discovery, conversion rates, cross-sell/upsell	+ R % = \$ R M
Cost Reduction	Savings achieved by optimizing operations, reducing inventory, or improving supply chain efficiency	+ C % = \$ C M
Improved Efficiency	Time saved by automating decision processes or using AI to speed up data analysis	+ E hours X Rate \$ = E \$
Risk Mitigation	Better risk management through predictive analytics and improved decision-making processes	
Qualitative Benefits	Qualitative factors such as improved employee satisfaction, better customer insights, and enhanced decision-making capabilities	
Total Benefits		<u>X \$/Year</u>
Cost of Decision Intelligence	Annual Subscription fees (AlaaS), one-time services, ongoing operations	(S \$ /year)

HOW CAN COMPANIES GET STARTED WITH DI?



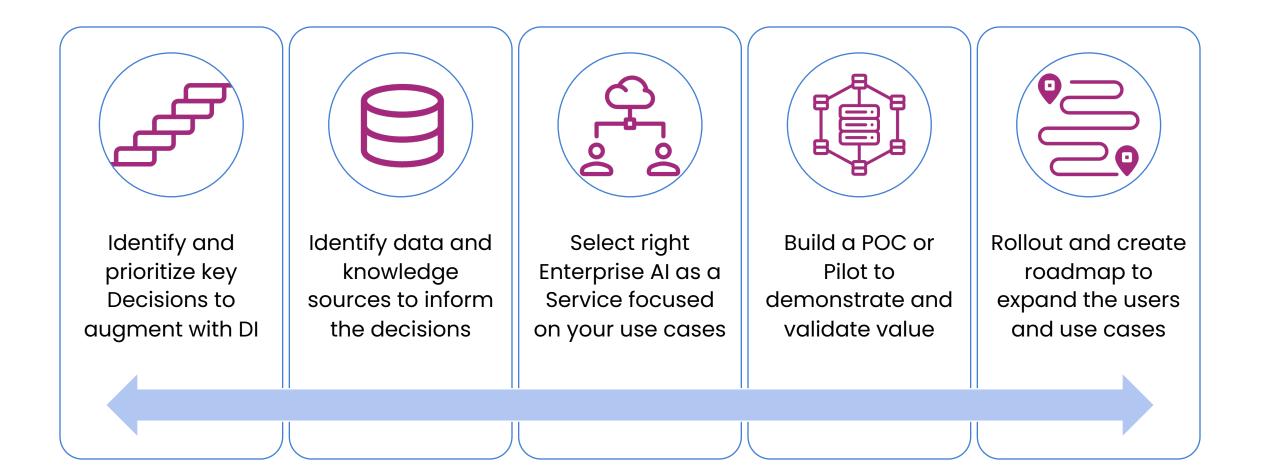
- 1. Choose a decision that's complex, perhaps in a rapidly-changing environment, maybe with some uncertainty and ambiguity, and which you think could be better
- 2. Ask your team to brainstorm about outcomes of the decision, without any judgment. Just list all the outcomes you can think of. List them on the right-hand side of a diagram.
- 3. Do the same with actions that might lead to those outcomes. List then on the left-hand side of a diagram.
- 4. See if you can think of what you can measure that might change how your actions lead to outcomes. List those on the left.
- 5. Draw some arrows to connect everything together, where the arrow means "the thing on the left will have some impact on the thing on the right"
- 6. Implement the decision model
- 7. Revisit and review it often.



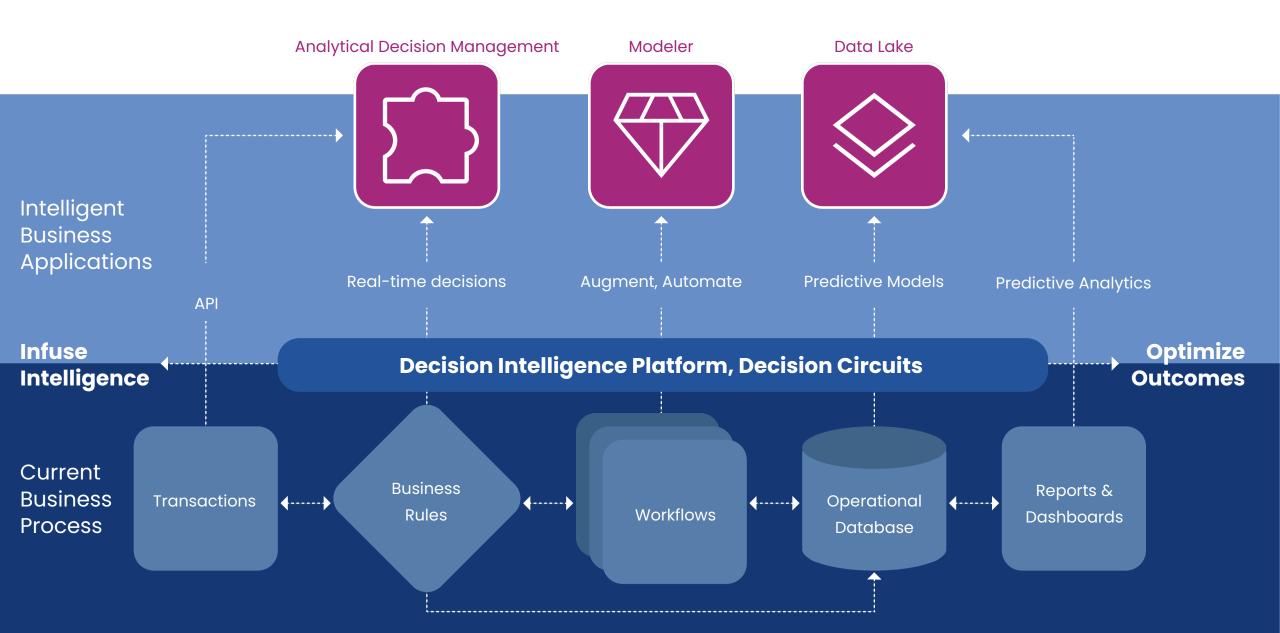
Read www.dihandbook.com to learn more

GETTING STARTED WITH DECISION INTELLIGENCE





INTELLIGENT BUSINESS APPLICATIONS



RISK MITIGATION



Wrong use cases

Select high value, feasible, repeat, and operational decisions to augment or automate

Technology and Team skills

Leverage Enterprise AI as Service models to mitigate risks with Technology and internal skill shortage

Data issues, Siloed Data

With Decision first approach, you can focus on (10% of) Data required to inform the decision.

Lack of Stakeholder buy-in

Phased approach to build trust, buy-in, change management, and education on job changes

Cost and Budget overruns

Plan and control costs for data acquisition, computing resources, integration with existing workflows, and ongoing maintenance

Al/Data Privacy, Bias, Fairness risks

Implement data and model validation, testing, & governance. Continuous monitoring of model performance, safety, and user feedback



HOW CAN COMPANIES CONTINUE TO OPTIMIZE THE OUTCOMES?

- 1. Keep in mind that a good decision is not the same as a good outcome.
 - Sometimes you make the best decision possible given the information available, but the outcome is not good because of uncertainty.
 - Sometimes you can make a bad decision and get lucky on the upside, too!
- 2. Use software to monitor decision elements
 - The decision diagram usually shows a superset of your existing KPIs
 - It adds the connections between them, though:
 - "How does this KPI impact my desired business outcomes?"
 - "What actions can I take to impact this KPI?"
- 3. If you have a decision that's repeated over time, then compare the DI system's predicted outcomes to the actual ones. Measure the error rate and re-calibrate your decision model if it crosses a threshold

MONITORING DECISION



Let't ring and con i usu by the vin ; Decision Intelligence (DI) to evaluate performance, make necessary adjustments, and ensure it optimizes outcomes.



KPI, Dashboards

KPI to measure decision accuracy, efficiency (time taken to make decisions), cost savings, revenue growth, customer satisfaction, and customer retention rates



Automated Analytics

Al algorithms to analyze the outcomes of decisions made through the DI, compare predicted outcomes with actual results., Identify patterns, trends, and discrepancies.



Feedback loops, and Monitoring

Track the performance and user feedback on decision-making processes including the effectiveness of AI models, data quality, and impact on business outcomes.



Learning & Optimization

Refining AI models and algorithms based on new data and feedback, optimizing decision workflows, adapting over time to improve accuracy and efficiency etc.

Q&A





Please submit your questions to panelists using Q&A button on Zoom toolbar.

If panelists cannot answer your question during the webinar because of time, you will receive a response via email after the webinar.

You can also submit questions after the webinar by sending an email to info@circuitry.ai

CONTACT US





Address

HQ: 15310 Amberly Drive, Suite # 250 Tampa, FL 33647, USA

> Al R&D Center: 841 SLN Terminus Gachibowli, Hyderabad, Telangana 500032, INDIA

Email

info@circuitry.ai

Website