

Applied Data Analytics Using Qlik Sense

Week 1 Takeaways
The Power and Potential of Data and Analytics

Qlik  LEAD WITH DATA™



Potential Risks with Data

Data that is incomplete, incorrect, or not trusted

Incorrectly built and interpreted visualizations and analytics

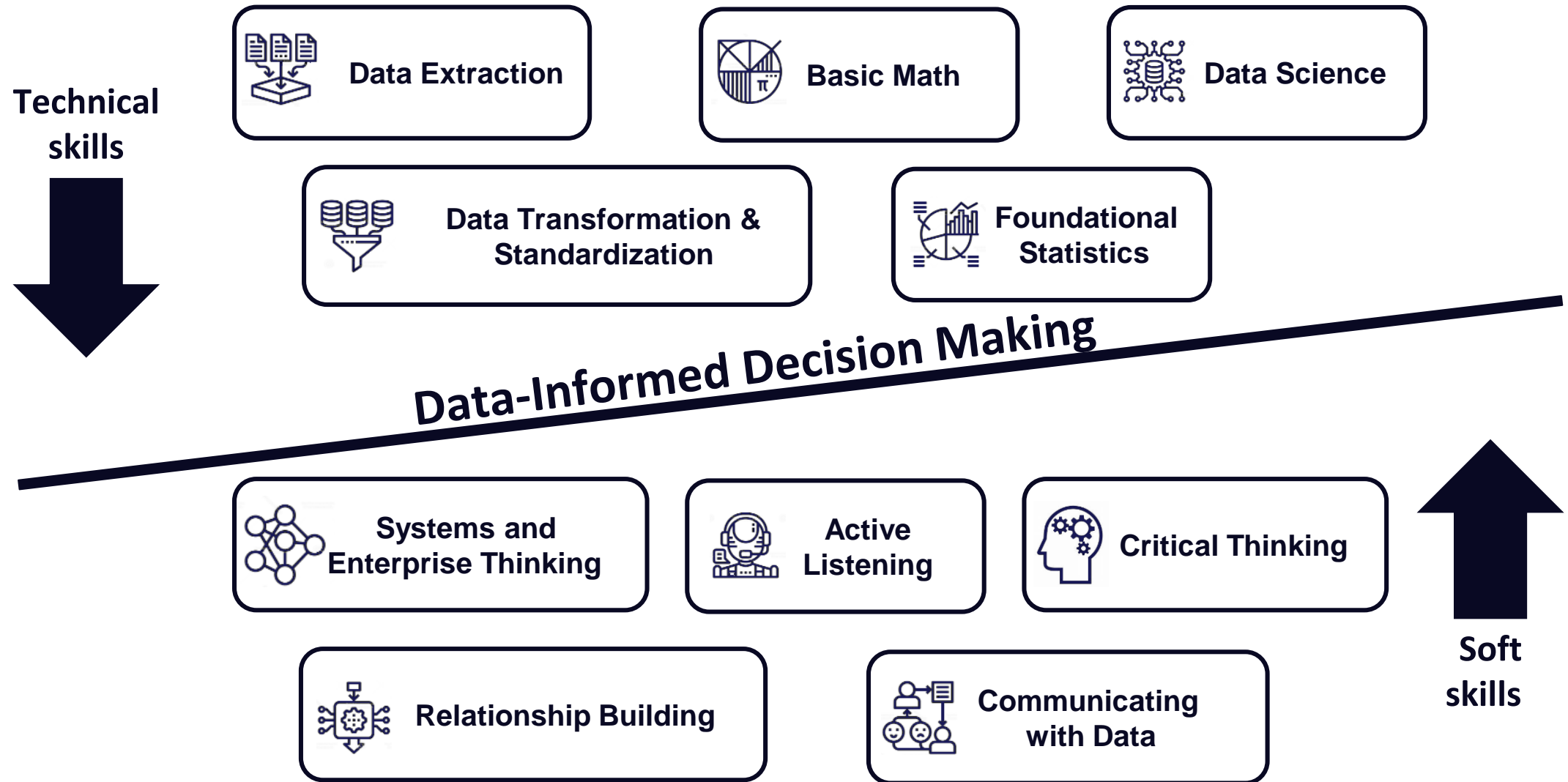
Incorrect assumptions and cognitive bias

Relying solely on data and/or intuition and not both

Unethical or illegal use

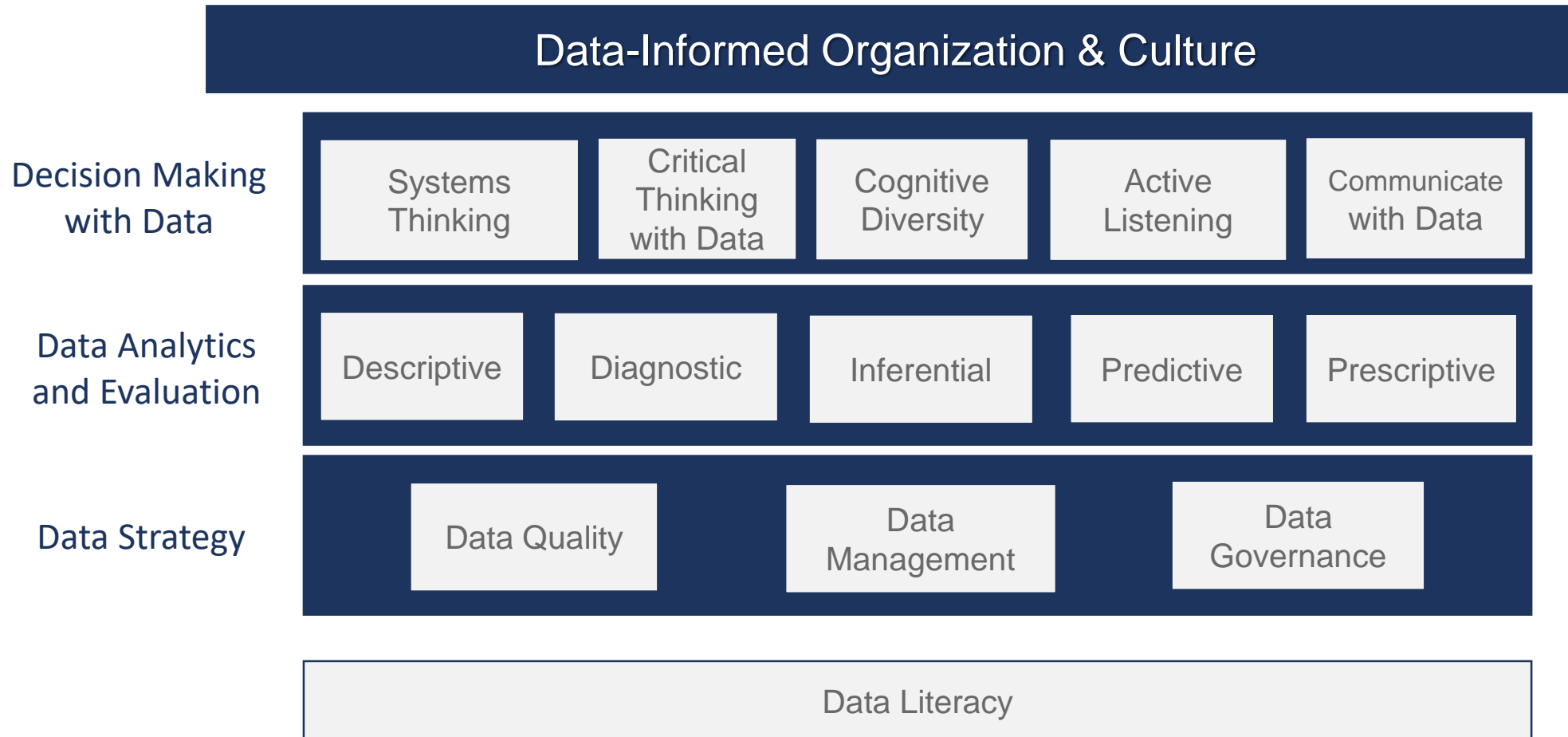
Incorrectly communicating decisions with data

Decision Making requires hard and soft skills

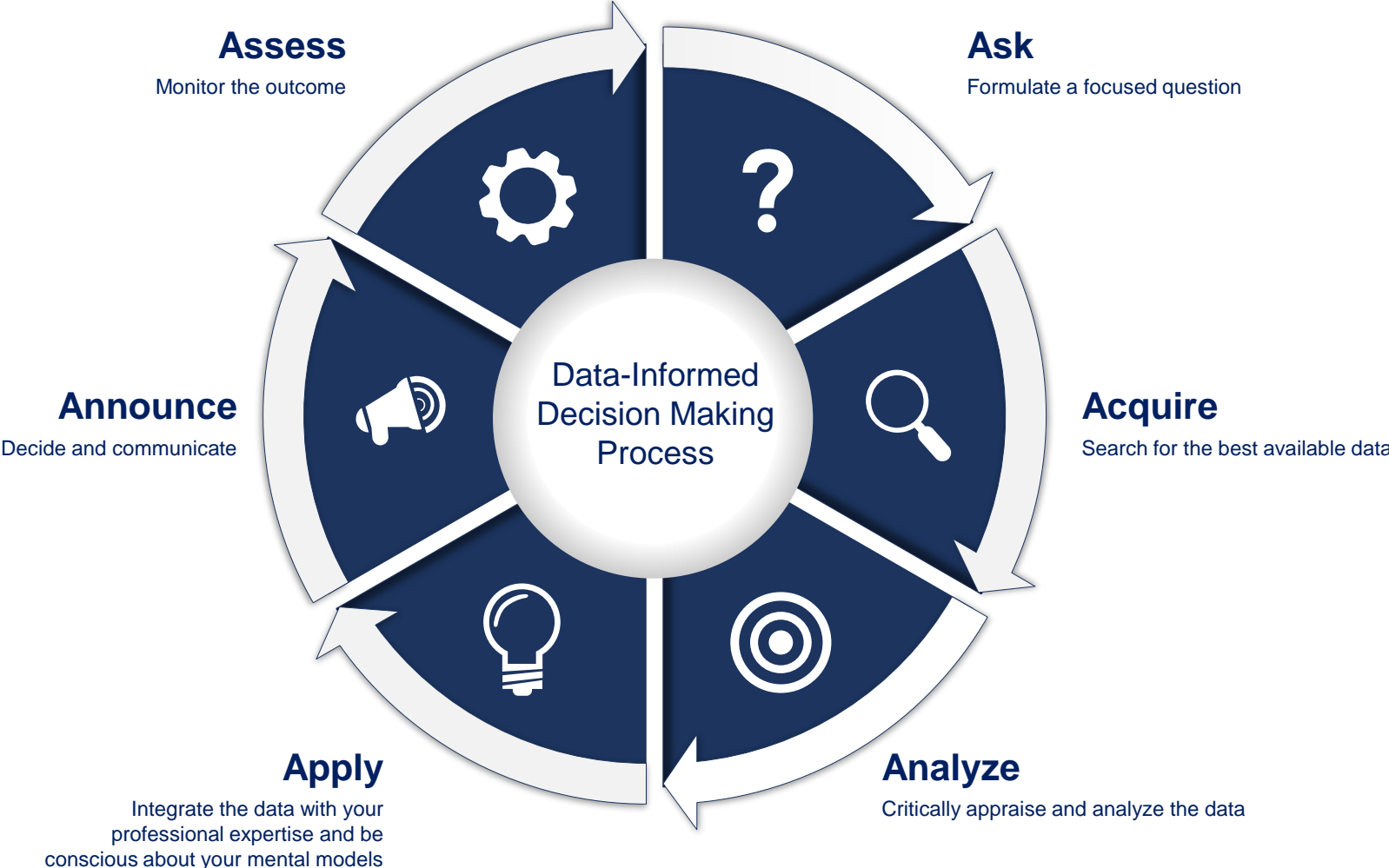


The Data-Informed Decision Making Ecosystem

*Data-Informed Decision Making is the ability to transform **information** into actionable and verified **knowledge** to ultimately make business decisions.*



Data-Informed Decision Making Process



Data-Informed Decision Making Methodology

| Step | Questions |
|-----------------|--|
| Ask | <ol style="list-style-type: none">1. Turn the business questions into analytical question(s).2. Classify the decision needed. |
| Acquire | <ol style="list-style-type: none">3. Find and source all relevant data. Remember to think about the analytical questions systemically and to include any interrelated data that could be relevant. This means not only internal data but external data and information as well.4. Ensure the sourced data is available, trusted, and in the right form (extracted, profiled, tagged, cataloged, standardized, treated for sensitivity, etc...). |
| Analyze | <ol style="list-style-type: none">5. Create a measurement framework to describe your data with Key Performance Indicators and Descriptive Analytics.6. Use diagnostic analytics to find patterns, trends, and relationships that may exist but not be obvious to start to drill into root cause. If applicable, leverage inferential statistics, predictive analytics, and prescriptive analytics. |
| Apply | <ol style="list-style-type: none">7. Review and orientate yourself to the information and data so far, and apply your personal experiences to it.8. Challenge the data and actively look for information to disprove it.9. Leverage strategies to become aware of and to mitigate bias, and then make a decision. |
| Announce | <ol style="list-style-type: none">10. Announce your decision at the right level to ALL stakeholders (direct, indirect, upstream, and downstream).11. Provide adequate time for stakeholders to unlearn any outdated mental models and to learn new ones. |
| Assess | <ol style="list-style-type: none">12. Set up a review mechanism to monitor the impacts of the decision after it is made and acted upon. Leverage that review mechanism, and fail/fix/learn fast, making improvements to data, measurement frameworks, accountability, decisions, and anything else upon. |