Analytics and Data Science: Improving Readiness

Understanding mission performance – Improving mission value
Deloitte believes that the mission of...

Serving Citizens  Creating Public Information  Enforcing Laws  Defending Citizens

...is the most important business in the world

That’s why we are helping our clients achieve a new era of human-machine collaboration where data science and advanced analytics help public servants and leaders anticipate what needs to be done, and get it done, better and faster than ever
Principle 1: effective analysis starts with a good question

Questions must underpin a decision that can be made ... and drive a valuable outcome

Identify durable questions that will spawn action and create impact

Be careful about building vs. buying: much can be accomplished with open source tools (e.g. R, Python) and commercial products

Don’t try to purify all the water before taking a drink

Design for user acceptance: engage users by wireframing target solutions to increase adoption and implementation
Principle 2: there are no analytics without data

Data science can rapidly leverage structured data for understanding mission and enterprise value.

Structured

Unstructured

Internal

External

Text / national language processing (NLP) is a mature capability – including open source libraries – enabling extraction of insights from unstructured data.
Principle 3: improve analytic outcomes by targeting a domain

Descriptive and diagnostic analytics produce useful insights fast when focused on specific domains in response to particular questions.

Benefits of Descriptive Analytics

- Provide meaningful insights (e.g. recognize production changes early and diagnose root causes)
- Allow leaders to frame better questions based on actual performance
- Help rapidly identify and resolve problems in the data
- Develop a substantive perspective from which to frame solution requirements
- Create a fact-based leader culture / dialogue
- Build the necessary foundation for advanced analytics / modeling
Principle 4: data science is a capability not a person

Creating and sustaining capabilities for enterprise impact requires a multi-disciplinary team