

The need for predictive analytic governance

What's Even Creepier Than Target Guesses

Yo

By Jorda

ISSUE

CR
AI
M
U

A Future as Creepy as You Feared

Amazon and other tech giants have made devices connected to the internet increasingly prevalent. Now is the time to be freaking out about the dangers, our columnist writes.

5h ago

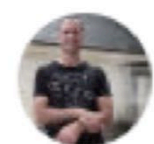
POLITICS / LEER EN ESPAÑOL

Facebook, Cambridge Analytica and data need to know

he center of an international
IS presidential election and

Vacuuming Up And It Could

ta brokers are predicting your health costs based on data about things like race, marital status, how much TV you watch, whether you pay your bills on time or even buy plus-size clothing.



Steve Dent, @stevtdent
06.01.18 in Robots

61
Com

Marshall Allen, July 17, 5 a.m. EDT

Ensuring predictive analytics coordination and integration



Key stakeholders:

Hospital Executive Leadership

Regional Directors

Hospital Operations

Hospital Quality

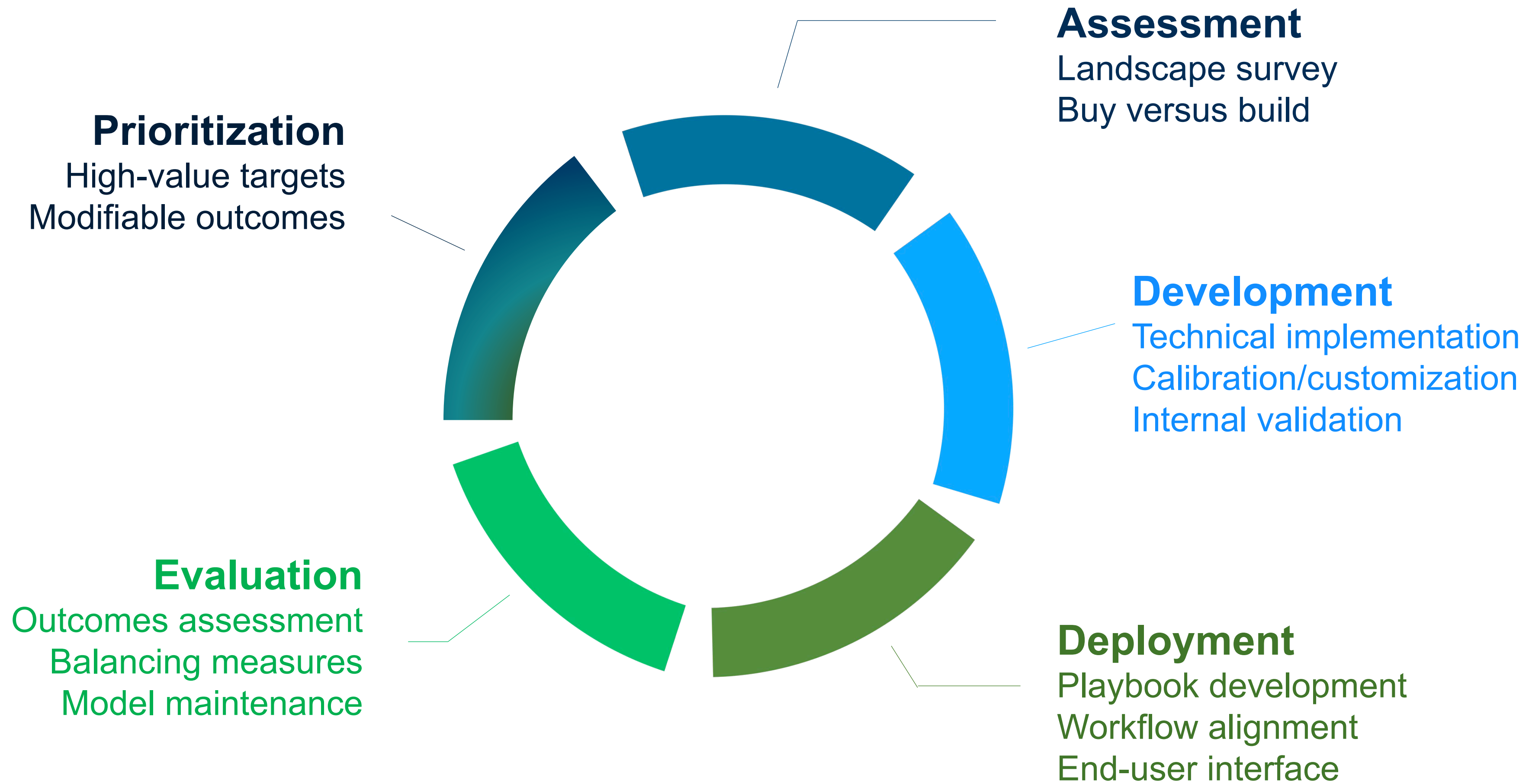
Hospital Performance

KP HealthConnect Leadership

Internal Analytics Consulting

Division of Research

The lifecycle of a predictive model



Case example: Advance Alert Monitor

A predictive model to reduce adverse hospital outcomes

Meet Roger...

- 60 years old, with diabetes and COPD
- ED Chief Complaint: Confusion, Back Pain

- Temp 101°
- Lactate: 2.7

- Repeat lactate normalized
- Admitted to telemetry with disorientation, otherwise stable.



[This Photo](#) by Unknown Author is licensed under [CC BY-SA](#)

Roger's Hospital Course – 4 years ago

- Overnight: Roger is “stable” on telemetry
- 8 am: Unchanged from yesterday?
- 3 pm: Code Blue called to Roger's hospital room
 - CPR in progress
 - Cathy, Roger's wife, is at the bedside
 - Roger's goals of care are quickly discussed during CPR
- 3:47 pm: CPR continues until Roger is pronounced dead



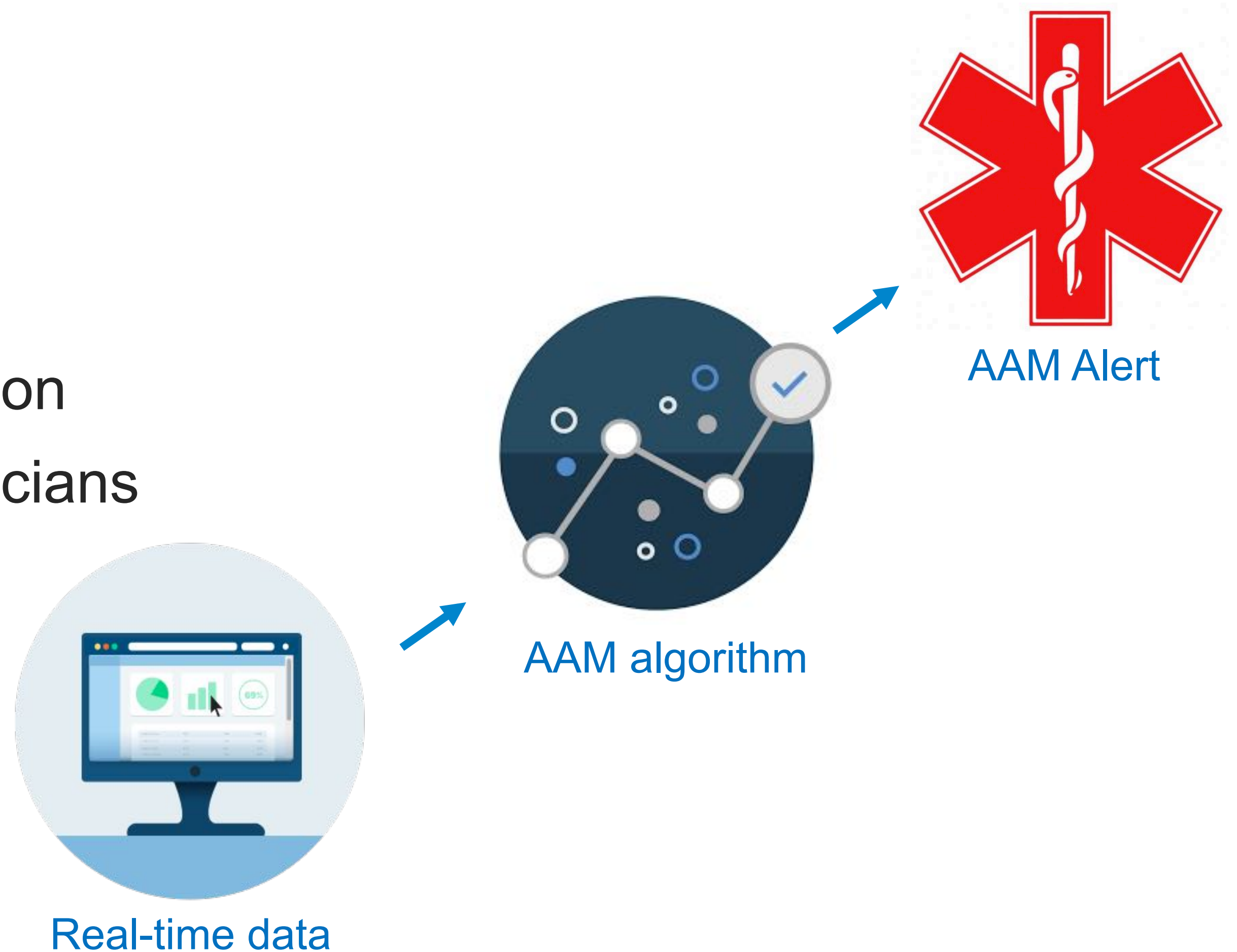
This Photo by Unknown Author is licensed under [CC BY-SA](#)

Principles guiding the development of Advanced Alert Monitor

Patient-centered and clinician-aligned prioritization

Principles for AAM development:

1. Identify the highest-risk inpatients
2. Respect patients' goals of care
3. Give clinicians enough time for action
4. Minimize false alarms for busy clinicians



Overview: Path to Implementation of AAM across 21 KPNC hospitals

Building a clinical program by redesigning workflows, teams, and technology

