

State of Government Data Collection

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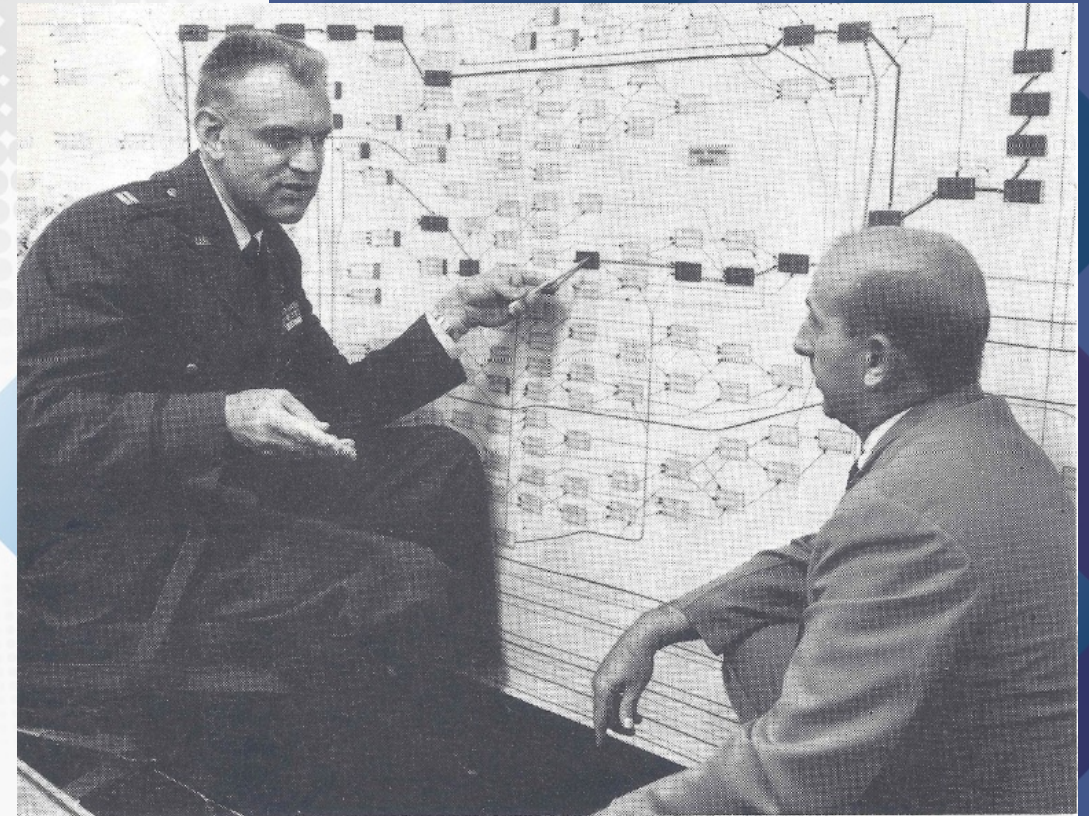
**PROJECT MANAGEMENT
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A.J. CLARK SCHOOL OF ENGINEERING
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State of Government Data Collection ... look at history

- Talks today have focused on programs and decisions around programs or projects or portfolios
- Management Science and program management
 - ~60 plus years ago defense got serious with integrating data – uses mainframe computer (see picture)
- Link to Strategy - outcome-based performance measures (1997 first Capital Programming Guide)
 - ~30 years ago 1996 Clinger-Cohen Act drove change
 - Started to look at Portfolios of Projects
- Today – we have Chief Digital and Artificial Intelligence Offices (DoD CDAO)
 - Focus on Integration, Data Science (includes AI), data quality, and rapid response ...
 - Data ownership/stove pipes are collapsing



Critical path in C-141 power package is discussed by author and Project Engineer Ed Horn. Overall PERT display is on 8x60 ft wall at Wright Patterson AFB.

Figure from Aerospace Management, Aug 1962, PERT on the C-141. by Hans H. Driessnack, Captain, USAF

Look at Defense – CDAO Role

- Operations - focus on Combined Joint All Domain Command & Control (JADC2)
 - 1986 Goldwater-Nichols Def Reorganization Act ... Combatant Commanders (more joint)
- Investments (DoDD 5000.01) – Defense Acquisition System. Change 1 (July 2022)
 - 1.2(s) Employ **Artificial Intelligence**, Machine Learning, Deep Learning, and Other Related Capabilities throughout Execution of the Acquisition Process.
 - 1.2(w) All acquisition program **data should be transparently shared**, to the greatest extent possible, in its native form and require minimal formatting and manipulation. All DoD data will be shared as widely as possible across the Military Services and OSD. Options to frustrate or prevent data transparency should not be entertained.
- Creation of ADVANA (Advance Analytics) , a DoD Enterprise-wide multidomain analytics and AI platform ... for decision-makers, analysts, and builders with tools...

Panel

- Dr John Yee – GAO Assistant Director for Advanced Data Analytics
- Professor Quigbin Cui – UMD Director Build American Center
- William (Shatten) Douglas – USAF SAF/AQC - eBusiness Lead
- Paul Gordon – Catalyze APAC (Sydney, Australia)
- Jennifer Leotta – GAO Assistant Director, Assessment & Analytics Team

Question – where is the government going with analysis and decision-making using Decision Science (AI, ML, NLP ...) and other tools