Paper Summary

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Title: Development and Actionability of the Dutch COVID-19 Dashboard: Descriptive Assessment and Ex

Authors: Véronique L. L. C. Bos, Tessa Jansen, Niek S. Klazinga, Dionne S. Kringos

DOI: 10.2196/31161

Year: 2021

Publication Type: Journal

Discipline/Domain: Public Health / Health Communication

Subdomain/Topic: COVID-19 dashboards, performance intelligence, public reporting

Eligibility: Eligible

Overall Relevance Score: 87

Operationalization Score: 78

Contains Definition of Actionability: Yes

Contains Systematic Features/Dimensions: Yes

Contains Explainability: Yes

Contains Interpretability: Yes

Contains Framework/Model: Yes

Operationalization Present: Yes

Primary Methodology: Mixed Methods (Descriptive assessment + expert appraisal)

Study Context: Dutch COVID-19 government dashboard development and adaptation over pandemic pha

Geographic/Institutional Context: Netherlands / Ministry of Health, Welfare and Sport

Target Users/Stakeholders: Policymakers, general public, public health experts

Primary Contribution Type: Empirical case study with conceptual framing

CL: Yes

CR: Yes

FE: Partial

TI: Yes

EX: Yes

GA: Partial

Reason if Not Eligible: N/A

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Title:

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Development and Actionability of the Dutch COVID-19 Dashboard: Descriptive Assessment and Expert A
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**Year:**
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**Publication Type:**
Journal
**Discipline/Domain:**
Public Health / Health Communication
**Subdomain/Topic:**
COVID-19 dashboards, performance intelligence, public reporting
**Contextual Background:**
Examines the development of the Dutch government's COVID-19 dashboard from June 2020 to January
**Geographic/Institutional Context:**
Netherlands / Ministry of Health, Welfare and Sport
**Target Users/Stakeholders:**
Policymakers, general public, public health experts
**Primary Methodology:**
Mixed Methods (Descriptive assessment + expert appraisal)
**Primary Contribution Type:**
Empirical case study with conceptual framing
## General Summary of the Paper
This study investigates the evolution of the Dutch COVID-19 dashboard, assessing its actionability through
## Eligibility
Eligible for inclusion: **Yes**
## How Actionability is Understood
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Actionability is defined as the potential of a dashboard to inform decision-making by being:

- **Fit for purpose**: meeting a specific information need.
- **Fit for use**: delivering the right information to the right audience at the right time, in an understandab
- > "Information can be actionable only if it is fit for purpose and fit for use." (p. 2)
- > "Actionability refers to a dashboard's potential to inform decision making by way of providing information

What Makes Something Actionable

- Knowing the audience and their needs
- Managing type, volume, and flow of information
- Clear data sources and methods
- Linking time trends to policy
- Providing data "close to home"
- Disaggregation into relevant subgroups
- Storytelling and visual cues

How Actionability is Achieved / Operationalized

- **Framework/Approach Name(s):** Seven common features of highly actionable dashboards (Ivankovill
- **Methods/Levers:** Descriptive monitoring, actionability scoring, reflection meetings with dashboard de
- **Operational Steps / Workflow:** Iterative adaptation, feedback integration, thematic navigation, indicate

- **Data & Measures:** Epidemiological indicators, health system metrics, behavioral surveys, sewage te

- **Implementation Context:** Netherlands, government-led pandemic monitoring tool
- > "The dashboard has been designed for... high-frequency (daily) updates..." (p. 7)
- > "Transparency of data was maximized by making it largely available as open source." (p. 7)

Dimensions and Attributes of Actionability (Authors' Perspective)

- **CL (Clarity):** Yes Efforts to explain indicators; news-like items for public understanding.
- **CR (Contextual Relevance):** Yes Geographic and thematic tailoring, audience shift to public.
- **FE (Feasibility):** Partial Constraints due to data access, privacy, and resources.
- **TI (Timeliness):** Yes Daily updates, responsive to pandemic phases.
- **EX (Explainability):** Yes Narratives and visual cues to aid interpretation.
- **GA (Goal Alignment):** Partial Aligned with public health monitoring goals, but not fully integrated v
- **Other Dimensions Named by Authors:** Transparency, granularity, equity focus (through subgroup da

Theoretical or Conceptual Foundations - Lasswell's Model of Communication (1948) - Performance intelligence in health - WHO pandemic monitoring framework (public health, health system, behavioral, socioeconomic) ## Indicators or Metrics for Actionability - Availability of disaggregation - Indicator variety (epidemiological, health system, socioeconomic) Navigation and usability features - Timeliness of updates ## Barriers and Enablers to Actionability - **Barriers:** Limited access to neighborhood-level data Privacy constraints on granular data Lack of integrated socioeconomic and ethnicity data - **Enablers:** Open-source data - Political commitment to transparency Ongoing public understanding research ## Relation to Existing Literature Builds on Ivankovi■ et al. (2021) framework for actionable COVID-19 dashboards, adapting it to the Duto ## Summary The Dutch COVID-19 dashboard transitioned from a policy-focused monitoring tool to a public-facing con ## Scores - **Overall Relevance Score:** 87 — Strong conceptual clarity, clear criteria, and framework application t - **Operationalization Score:** 78 — Provides a structured approach to achieving actionability with practic

Supporting Quotes from the Paper

- "Actionability refers to a dashboard's potential to inform decision making by way of providing information
- "Seven common features... knowing the audience... managing the type, volume... linking time trends to
- "Transparency of data was maximized by making it largely available as open source." (p. 7)
- "Two of the four key components advised by WHO... were still missing: indicators of available capacity.

Actionability References to Other Papers

- Ivankovi■ et al. (2021) Features Constituting Actionable COVID-19 Dashboards
- Barbazza et al. (2021) Actionability of healthcare performance indicators
- WHO (2020) Pandemic transition monitoring framework