

Summary of DGQI

Ministry of Tourism,
Government of India

Introduction

About DGQI

- NITI Aayog has undertaken DGQI exercise: Self-assessment-based review of data preparedness levels across Ministries / Departments to produce a DGQI score card. Accordingly, a survey was initiated with the objective of assessing data preparedness of Ministries / Departments on a standardized framework to drive healthy competition among them and promote cooperative peer learning from best practices.
- In this survey, an online questionnaire was prepared under six major themes of DGQI: Data Generation; Data Quality; Use of Technology; Data Analysis, Use and Dissemination; Data Security and HR Capacity and Case Studies.
- Weightages were assigned to the themes and sub-weightages to each question within every theme to arrive at final DGQI scores ranging between 0 to 5 for every scheme.
- To avoid straight-forward irrelevant comparisons, Ministries / Departments were classified in 6 (six) categories: Administrative, Strategic, Infrastructure, Social, Economic and Scientific
- Questionnaire was then shared with Ministries / Departments, which are implementing CS / CSS schemes. Inputs have been collected from Ministries / Departments implementing CS / CSS schemes and their scores were accordingly calculated.
- Ministry of Tourism ranked 74th out of the 74 Ministries / Departments with a score 0.62 on a scale of 5 in quarter-2 of 2021-2022 and after the onboarding of Data Strategy Unit the ranking of the Ministry of Tourism arrived at 55th rank with a score of 2.76 out of 69 Ministries / Departments.

Aim of DGQI

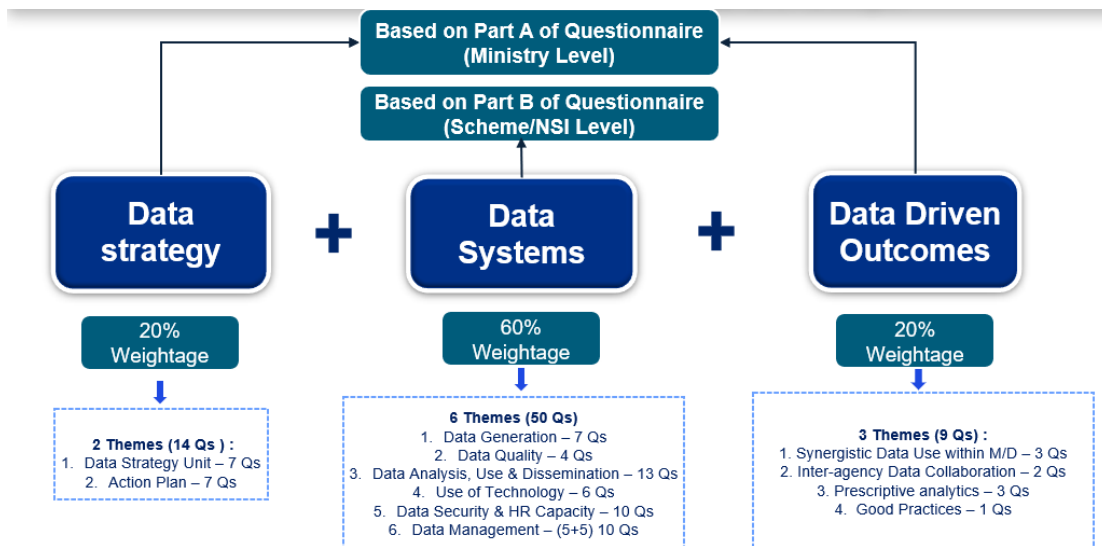
- Prepare a self-assessment diagnostic tool that will enable the ministries and departments to internally contemplate the need for improving data systems.
- To enable review and assessment of data preparedness of the data/ MIS systems of the ministries and departments on objective parameters of a standardized framework.
- To enable ministries and departments to drive reforms in the direction and improve their data systems to attain frontier DGQI score of 5.0.
- To enable peer learning by sharing best practices across various ministries and departments.

Need for DGQI exercise

- To enable the availability of high-quality, granular, real-time data for decision making and drive the use of data-based insights for policy making.
- To ensure efficient use of government resources for delivery of schemes and programmes by improving data-driven accountability through cutting-edge technology-use.
- To ensure good quality data for regular monitoring of inputs, activities, outputs, and outcomes of government interventions.
- To facilitate the use of data-based insights for redesign and mid-course corrections in implementation of government interventions.
- To build and improve the IT ecosystem to enable use of evidence to inform the design of new schemes, programmes, and policies.

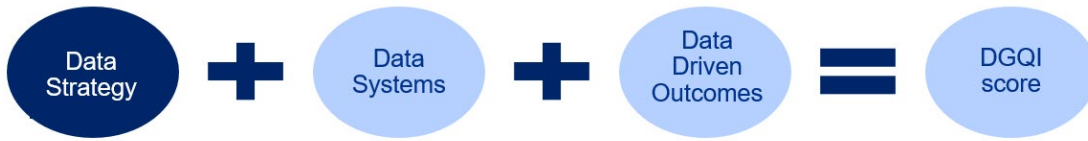
DGQI Overview

Three pillars of DGQI (100% weightage cont....



Theme wise weightage

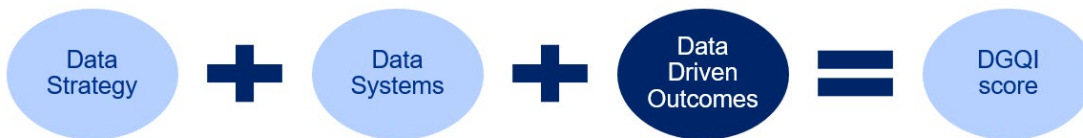
Data strategy (20%)



Theme	Theme weightage within data strategy pillar
Data & Strategy Unit	50%
Action Plan	50%

$$\text{Data strategy score} = 50\% * (\text{Data \& Strategy Unit score}) + 50\% * (\text{Action plan score})$$

Data driven outcomes (20%)



Theme	Theme weightage within data driven outcomes pillar
Synergistic data use within M/D	30%
Inter-agency data collaboration	30%
Prescriptive Analytics	10%
Good practices	30%

$$\text{Data outcomes score} = 30\% * (\text{Synergistic data use score}) + 30\% * (\text{Inter-agency data collab score}) + 10\% * (\text{Prescriptive analytics score}) + 30\% * (\text{Good practices score})$$

Data systems (60%)



Theme	Theme weightage within data systems pillar
Data Generation	18%
Data Quality	18%
Data analysis, use & dissemination	18%
Use of technology	10%
Data Security & HR capacity data	18%
Data management	18%

$$\text{Data systems score for each scheme/NSI} = 18\% * (\text{Data gen score}) + 18\% * (\text{Data qual}) + 18\% * (\text{Data analysis}) + 10\% * (\text{Use of tech}) + 18\% * (\text{Data sec\& HR capacity}) + 18\% * (\text{Data management})$$

Simple average of all scheme-level/NSI data systems scores to arrive at aggregated data systems score

