



Infrastructure and Projects Authority

IPA Hack Challenge





Infrastructure and Projects Authority

What's the IPA?

Opportunity

Challenge

The IPA is the **UK government's centre of expertise** for infrastructure and project delivery

Sitting at the heart of government and working across departments to support successful delivery of all types of project

Experts in all elements of project delivery – infrastructure, IT, defence transformation, project finance and project profession capability





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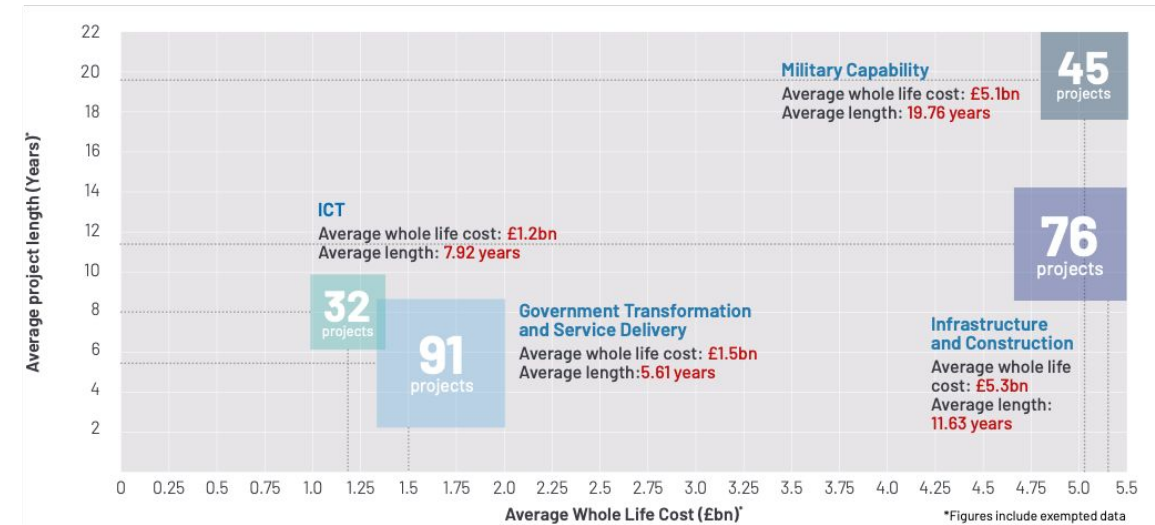
Challenge

The **Government Major Projects Portfolio (GMPP)** comprises the largest, most innovative and highest risk projects and programmes delivered by government

244 projects
with a total whole
life cost (WLC)
of **£805bn**
and **£758bn**
of monetised
benefits

The current GMPP snapshot

Figure 3: GMPP categories – number of projects, average project length and average whole life cost



To help **improve the chance of successful delivery**, expert teams in the IPA

- provide independent scrutiny and assurance,
- give specialist project delivery, commercial and financial advice,
- make specific recommendations,
- deploy practical tools



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YOUTH INVESTMENT FUND
DCMS



FLEET SOLID SUPPORT



**RAPID
CHARGING
FUND**
DFT

**HMP
FIVE WELLS
NEW PRISON**
MOJ



**PENSIONS
PROGRAMME**
HMRC



What insights can you provide into the status of the government's largest projects?

You will have access to a summary of the delivery data provided by GMPP projects alongside reference data from a world leading major project consultancy firm.

Here are some hypothetical examples of scenarios where your solution could have impact...



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Improving Interventions

- A £20 billion nuclear power plant construction project is going through a reset.
- The project has repeatedly encountered unexpected barriers from the planning system and problems recruiting skilled staff.
- Can you find information about similar projects to inform how the program managers can change their approach at the reset?





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Early warning system

- A flood defence system is being constructed in a flood stricken area of Somerset at a total cost of £1.2 billion.
- Three months before a stretch of sea wall was scheduled to be completed, it is delayed by 18 months exposing the residents to another wet winter without protection.
- The project has routinely underspent since it started as it has struggled to award construction contracts on time.
- Using the IPA's data sources, could you have predicted this ahead of time?

