

NZDF Estate Planning ESTATE DEVELOPMENT PLAN



Contents:

- Objectives of EP
- Background of ESF and EDP
- EDP Data
- MCDA
- Where we are

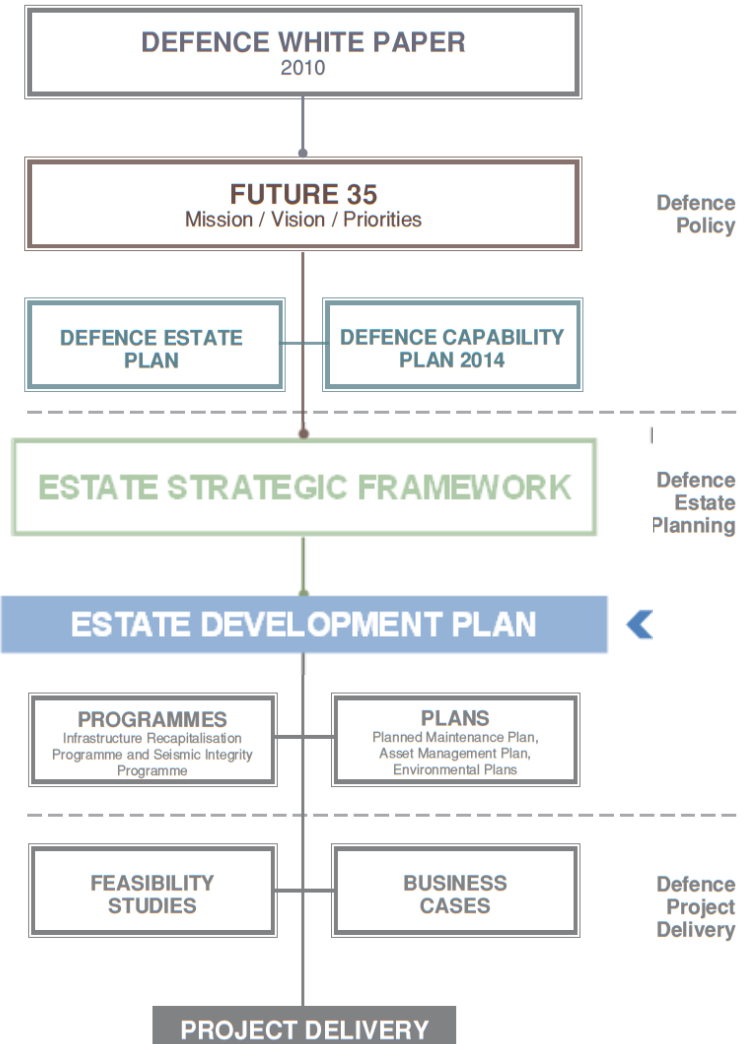
NZDF Estate Planning OBJECTIVES

What EP Provides:

Responsible for the planning of the Defence Estate to meet future needs and demands through an enduring vision.

In 2013, Defence Property Group (DPG) identified the requirement for:

1. A series of master planning documents
2. A process that sequences the identified projects for delivery across the NZDF estate



NZDF Estate Planning

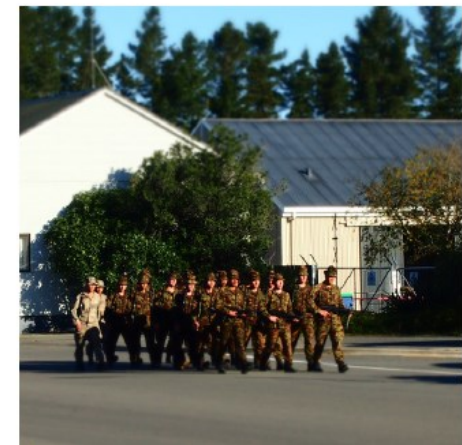
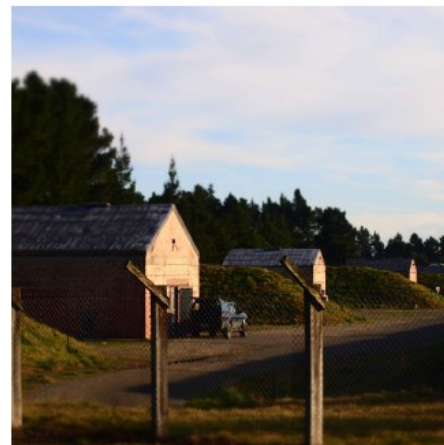
OBJECTIVES

The objectives EP are required to meet are:

1. Consolidation of existing assets
2. Cultural change
3. Disposal of recapitalised assets
4. Robust planning and governance

Approach:

1. sS engagement
2. External specialists
3. Proven, industry standard, approach
4. NZDF internal governance



NZDF Estate Planning

ESTATE STRATEGIC FRAMEWORK

The NZDF estate demonstrates a wide variety of planning, design and build responses through its built assets. Much of the estate was built from WWII through 1960s, is degraded, and has increasing compliance challenges.

The Estate Strategic Framework has an enduring future vision: “to provide ‘fit for purpose’, responsive infrastructure aligned to assist the ‘agile force’ to meet its required outputs”.

The ESFs provide the answer to the ‘**where**’ and ‘**what**’ communicating:

- i. Planning principals
- ii. Site functionality and outputs
- iii. Precinct planning



NZDF Estate Planning

ESTATE DEVELOPMENT PLAN

Uses industry standard tools to bring together all available asset information and known project criteria to determine inter-relationships of projects across the NZDF estate.

The EDP follows the ESF and determines the **‘how’** and **‘when’** for project delivery.

The EDP:

- i. Objectively ranks
- ii. Incorporates strategic intent
- iii. Produces an optimised project sequence

The NZDF EDP will provide individual site EDPs and communicate project priority and demolition sequence, in a time-bound Gantt chart.



NZDF Estate Planning

ESTATE DEVELOPMENT PLAN

Projects were previously prioritised per site, allowing site-politics and personal-bias to direct decisions; preventing coherent inter-site development across the whole-of-NZDF estate.

Requirement:

Amalgamate data (from ESF, AMP and site)

Nothing available on market

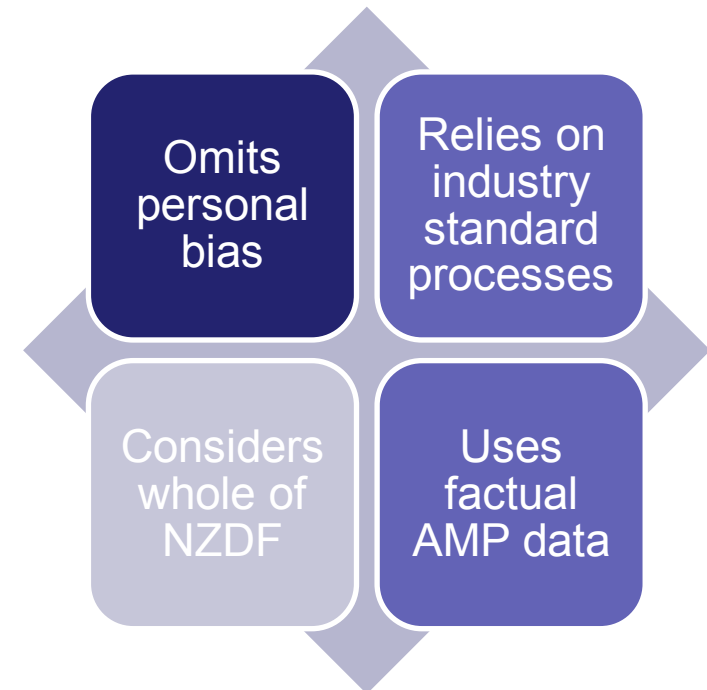
Reliable and replicable process

Capability:

Compatible across the whole of NZDF estate

Quick and replicable calculation

Optimised and 'real' outputs



NZDF Estate Planning

ESTATE DEVELOPMENT PLAN

MCDA

Multiple Criteria Decision Analysis
[or Multiple Criteria Decision Making (MCDM)]

Standard Process

Many different approaches

But first...

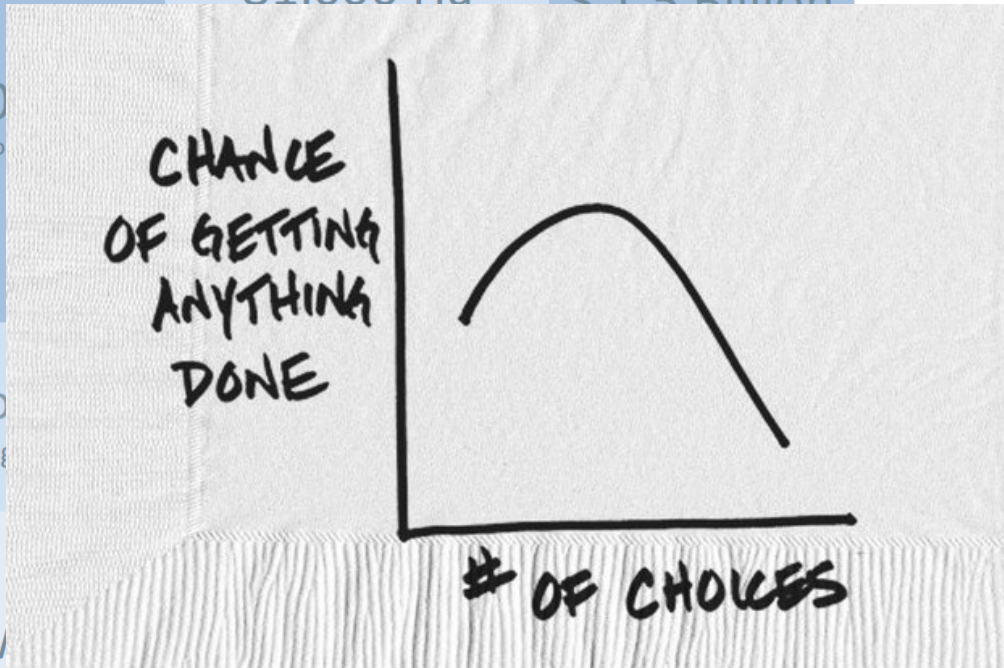


NZDF Estate Planning

ESTATE DEVELOPMENT PLAN

NZDF Estate

9 Major camps and bases	81,000 Ha	\$1.5 Billion
2 Major training areas	10 perso	
~\$150 Million forecast annual operating		
Regional Netw of facilities supporting Reserve & Regular Force	Headquarters/Freyberg House accommodates ~1,100 staff	total leased area for HQ

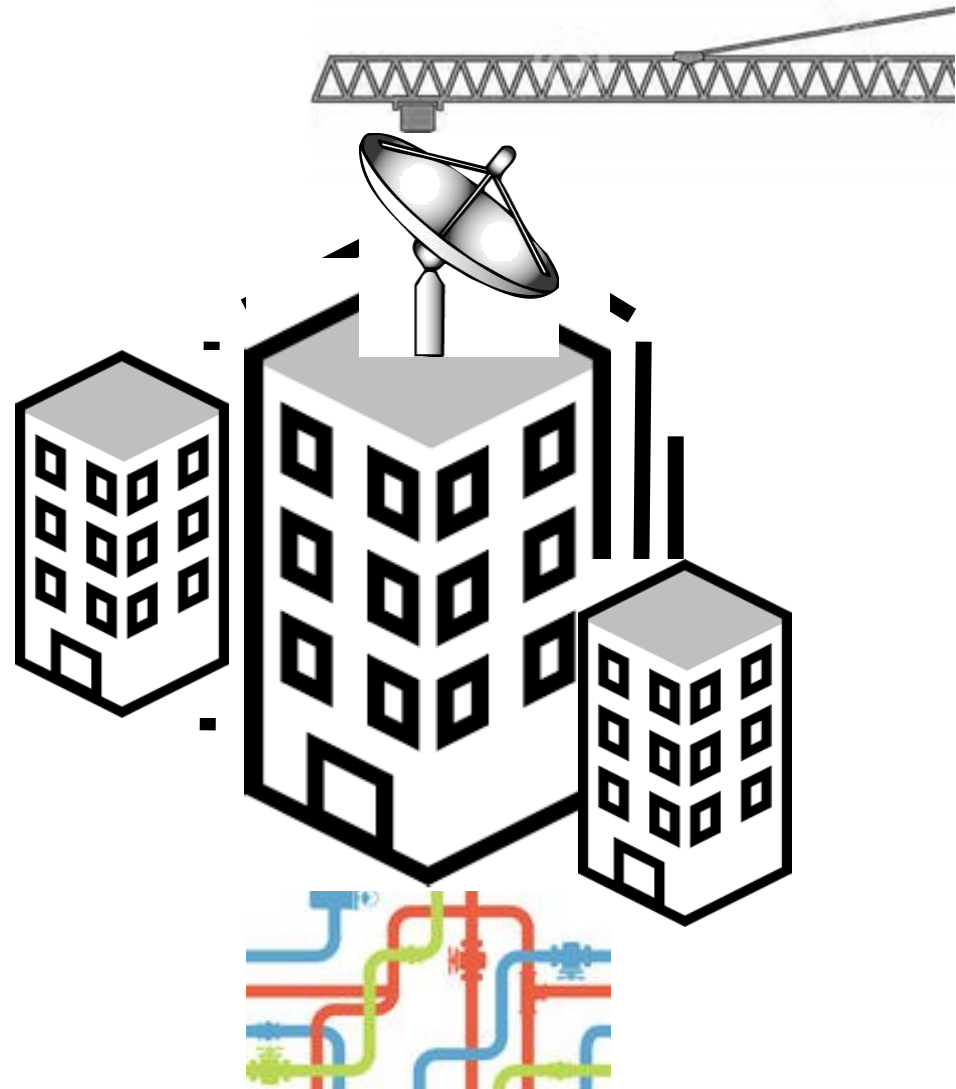


NZDF Estate Planning

ESTATE DEVELOPMENT PLAN

Data Driven

- Asset Acquisition Date
- Asset Services
- Asset Construction Type
- Asset Size
- Asset Location
- Asset Dependencies
- Asset Criticality
- Personnel Impact
- Estimated Project Cost
- Estimated Project Duration
- Condition Assessments
- Seismic Assessments
- ...



NZDF Estate Planning

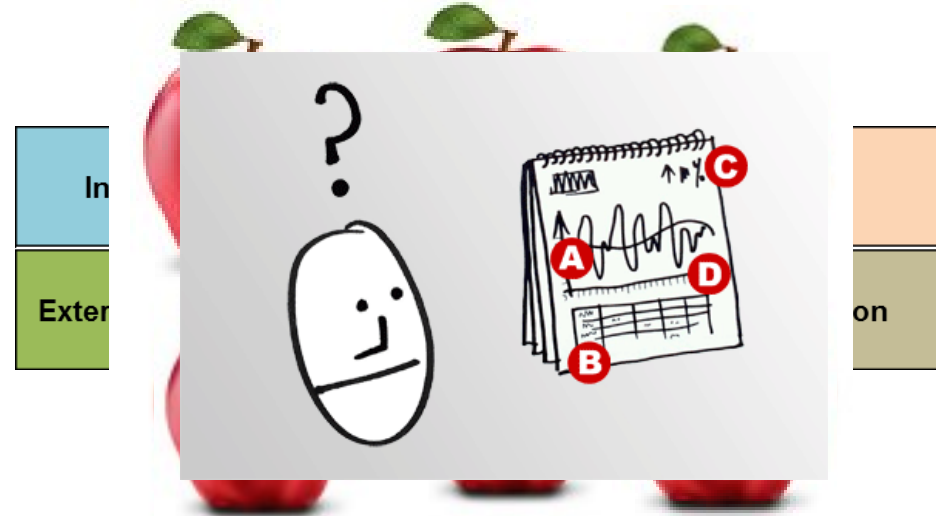
ESTATE DEVELOPMENT PLAN

Criteria Assessment

Choosing the criteria

Determining the metrics

Ensuring inter-operability

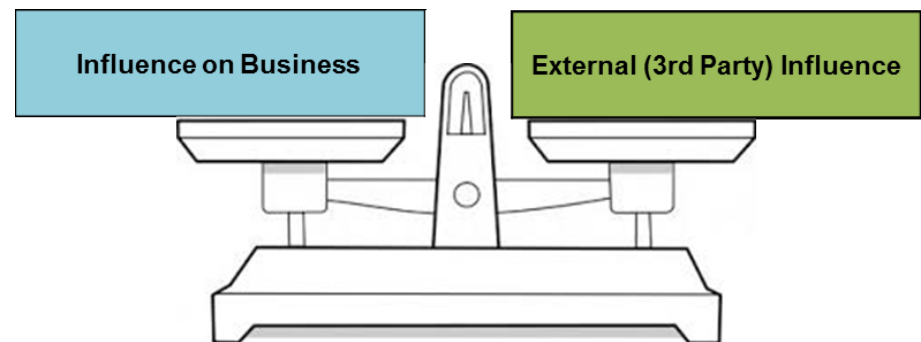


Criteria Decisions

Deciding calculation

Pair-wise assessment

Assessment and Analysis



NZDF Estate Planning

ESTATE DEVELOPMENT PLAN



DEFENCE PROPERTY GROUP

MCDA Decisions

Many options available;

- Some require significant human input (and time)

- Some are costly to run (per iteration)

- Some are too “basic” or limited

Chosen Approach:

- In-house development

- Decision was made to use two *numeric-based* MCDA ‘theorems’ and tailor them

NZDF Estate Planning

ESTATE DEVELOPMENT PLAN

Analysis

Process Analysis:

- SME review

- Workshops and governance processes

Data Analysis:

- Documentation, testing and reporting



Outcome

Complete process

Includes Governance processes

Developed programme identifying
Defence Infrastructure spending



NZDF Estate Planning

SUMMARY

What is the result?

NZDF has a robust planning tool which :

- Removes bias

- Provides a rigorous platform to deliver results

- Caters for NZDF and its' infrastructure

- Sequences 'known' infrastructure projects beyond 10 years

- Time and cost efficient process

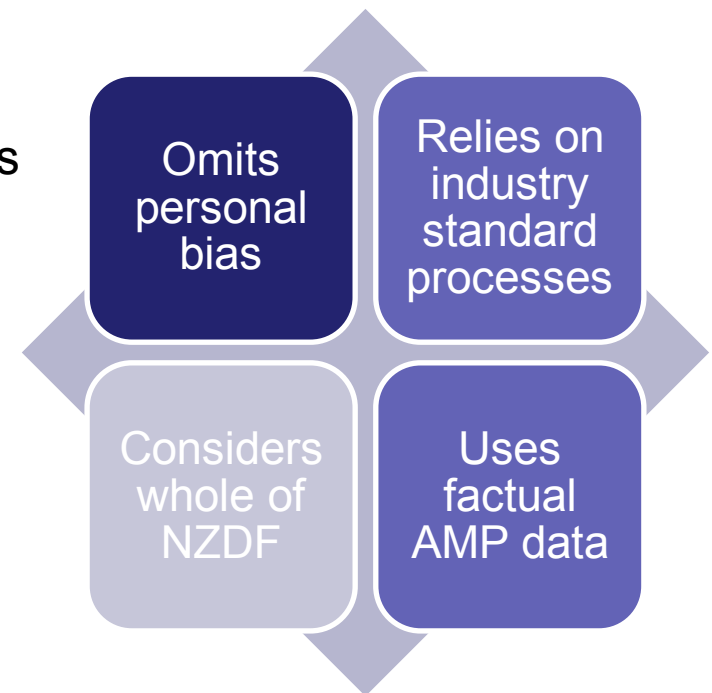
NZDF is able to:

- Exceed/Meet central Government direction

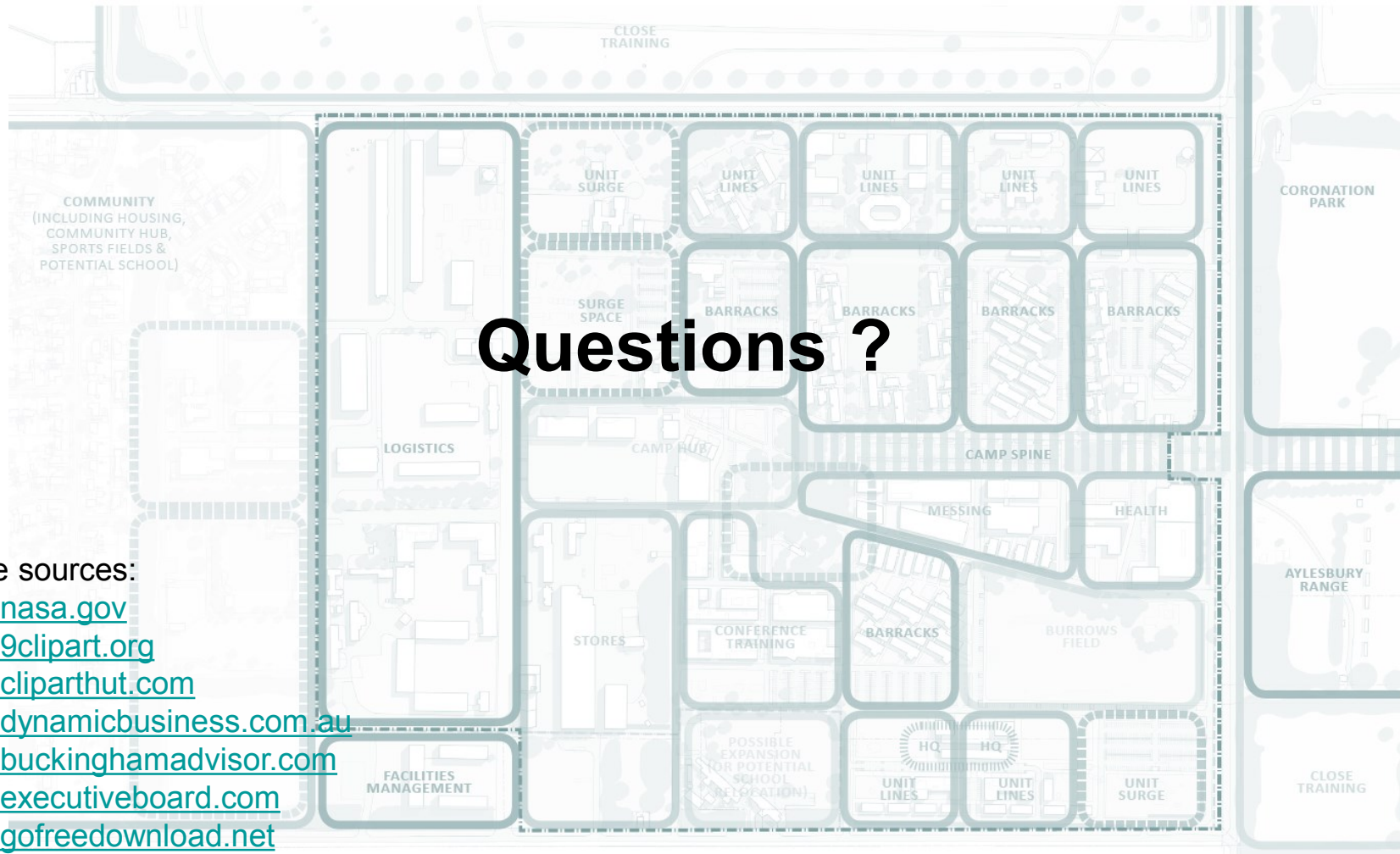
- Plan to meet \$1.7Bn Infrastructure Capital

- Construction across the Estate

- Continue to deliver v.f.m. to the NZ taxpayer



Fin.



Questions ?

Image sources:

<http://nasa.gov>

<http://9clipart.org>

<http://cliparthut.com>

<http://dynamicbusiness.com.au>

<http://buckinghamadvisor.com>

<http://executiveboard.com>

<http://gofreedownload.net>