



NGA's approach to e-AIP and Database Management

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NATIONAL GEOSPATIAL **NGA** INTELLIGENCE AGENCY

Background

Amounts of data NGA Aeronautical has seen World Wide:

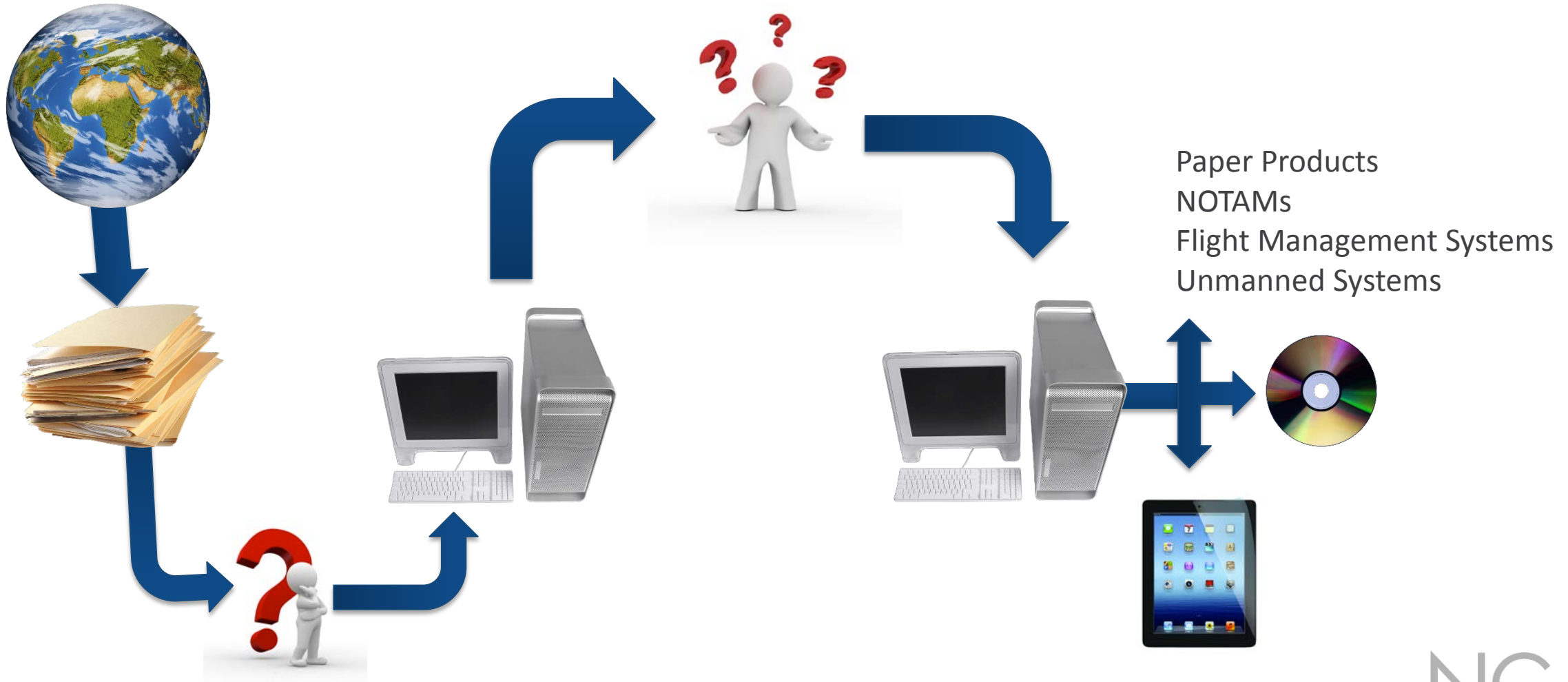
2010 –

- ~ 19,000 pages every 28 days
- ~ 9,000 NOTAMs Daily
- ~ 68 million data elements

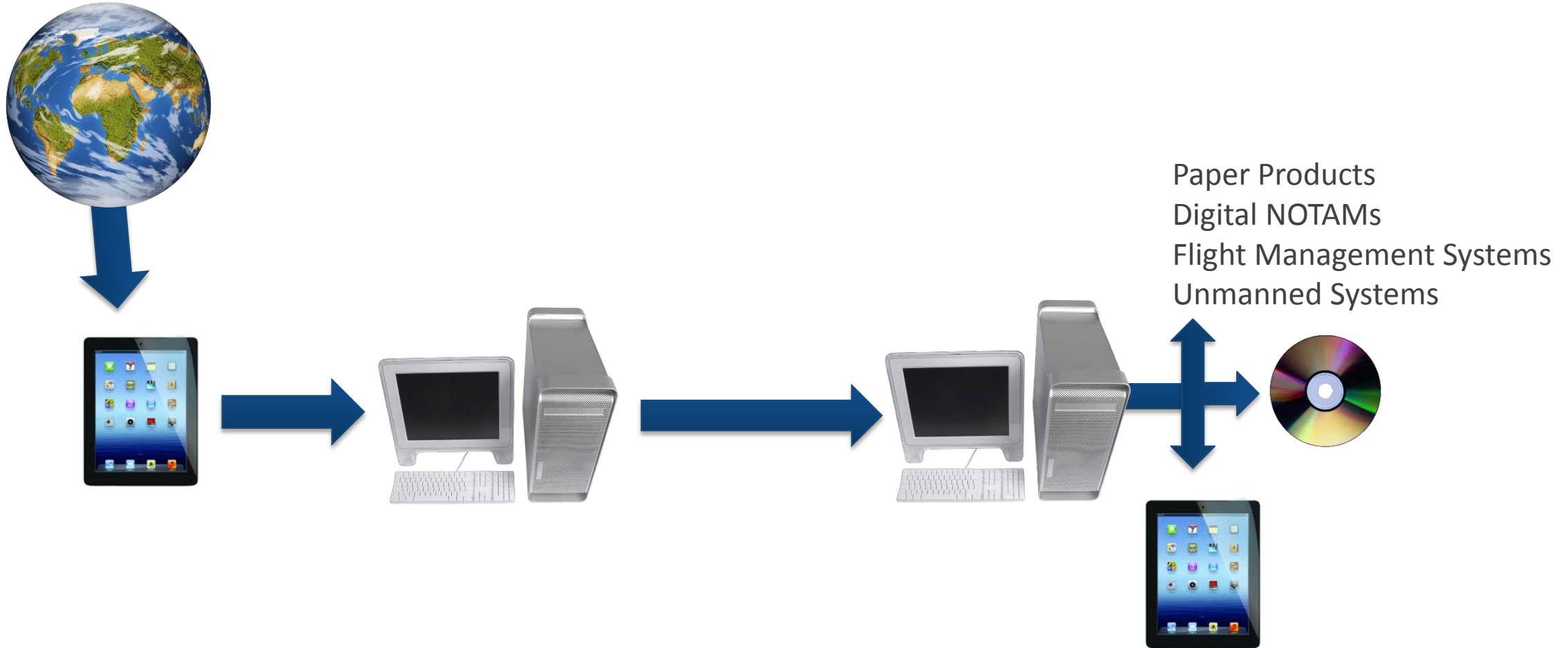
2016 –

- ~ 28,000 pages every 28 days
- ~ 21,000 NOTAMs Daily
- ~ 92 million data elements

Currently....



Future....



What is Enabling the Transition

Software

- Automation improvements in the last 2 years

AIXM

- Closest to real world
- Terminology
 - Data enables a machine to machine

Technology

- 40 Kg of Paper FLIP vs 3 Kg Tablet

What has potential to become an obstacle?

Software

- Automation improvements in the last 2 years

Technology

- How often do you replace mobile?

Advantages

Enable Manpower Usage

- Communication improvement

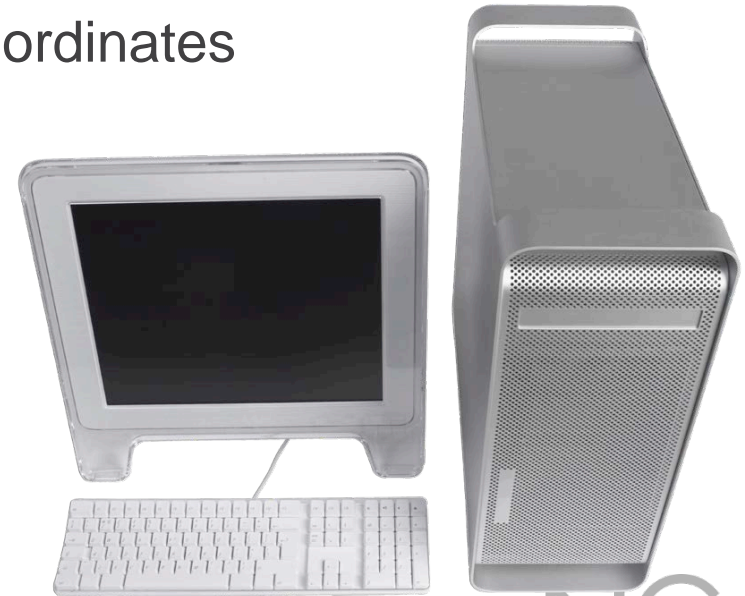
Automatic Data Checking

- i.e. Length of runway vs. Calculation from Runway Coordinates

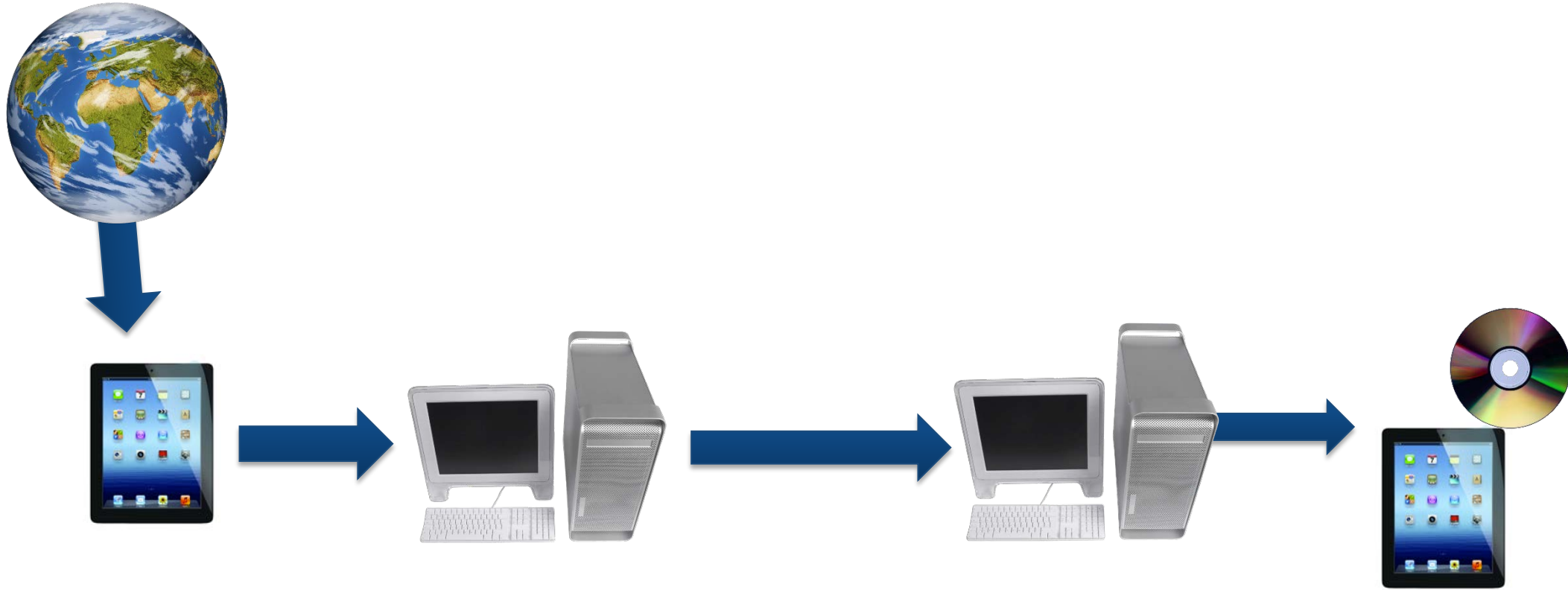
Improved Route Planning

- Free Route Airspace

Risk reduction and Improved Safety



Future....



PBN environment needs precision.

Data standardization, logic checks, and data constraints are critical for this transition.

