



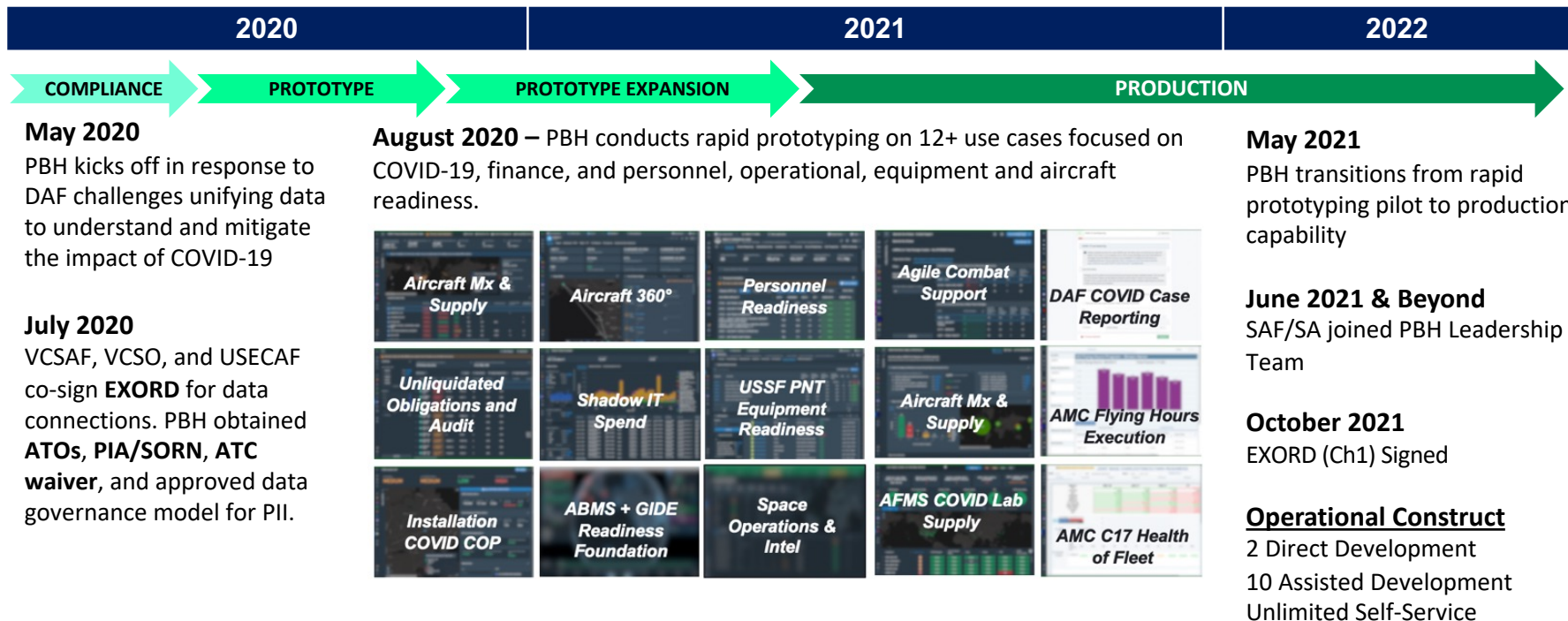
ENVISION

a Digital Air & Space Force with Project Brown Heron

Project Brown Heron



Project Brown Heron leverages Palantir Foundry. Foundry is a commercial platform for enterprise data management. The Department of the Air Force instance of Palantir Foundry is called Envision.



Envision Platform

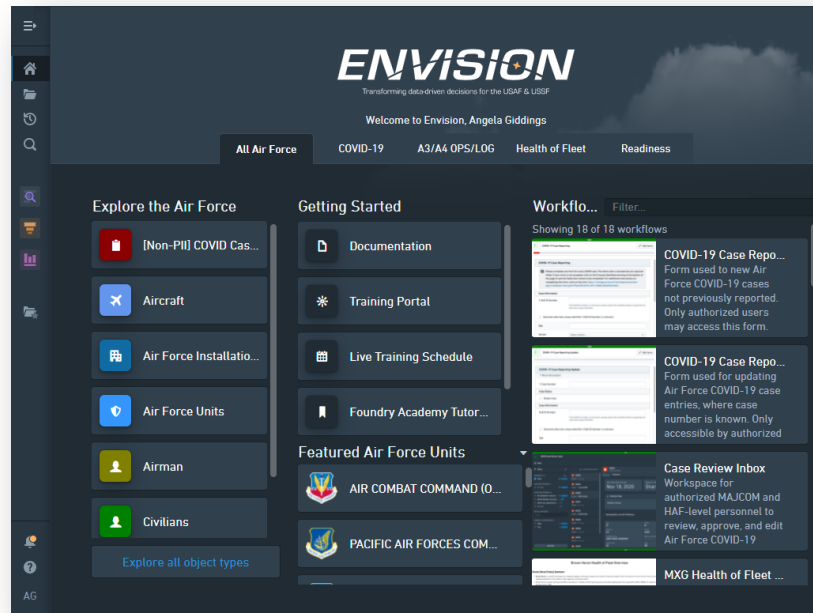


Sponsored by the Vice Chief of Staff of the Air Force (VCSAF), Vice Chief of Space Operations (VCSO), and Under Secretary of the Air Force (USECAF) **Envision is an enterprise data capability for data-driven decisions about DAF readiness.**

Envision is a Department of the Air Force (DAF) platform designed to enable data-driven readiness decision-making. A tenant of the Warp Core Data as a Service enclave, Envision is one of six platforms in the DAF Data Fabric and a critical pillar enabling multi-domain data federation to OSD, JAIC, Army, and other mission partners.

The platform integrates data from authoritative data sources across the DAF, DoD, and US government. With Envision, Senior Leaders, Commanders, Coders, Analysts, Data Operators, and Airmen/Guardians/ Civilians/DAF Contractors **across all echelons** can increase the quality and speed of their decisions.

NIPR and SIPR instances of Envision are in production today. The platforms are hosted on AWS GovCloud (NIPR) and AWS SC2S (SIPR), are fully accredited by the Air Force, and are available for unlimited DAF users today at <https://envision.af.mil> and <https://envision.af.smil.mil>. NIPR Envision data is synced to SIPR Envision via AWS diode (Cross-Domain Solution)

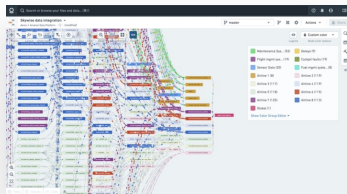


Envision Platform Capabilities



Data Lineage

Explore dataset provenance



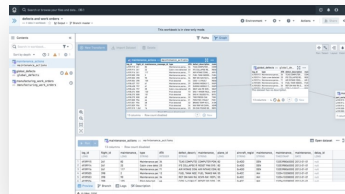
Contour

Top-down analysis for large datasets



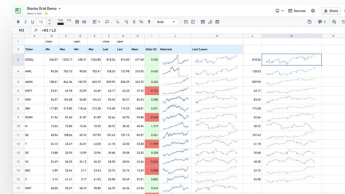
Code Workbook

Analyze and transform data in Python, R, or SQL



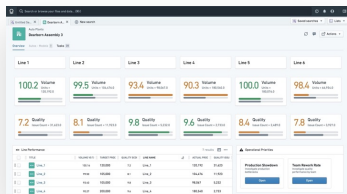
Fusion

Build data-driven spreadsheets



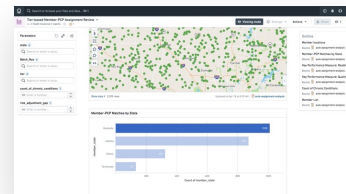
Object Explorer

Find objects and links



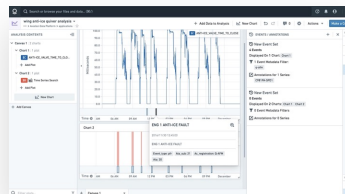
Reports

Collect, document and share work



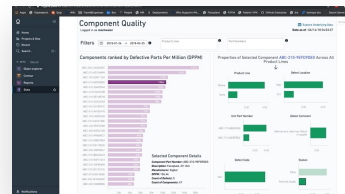
Quiver

Plot, transform, analyze time series data



Workshop

Build interactive applications



Data Connection: Perform and schedule large uploads of data



Data Catalog: Browseable, curated content for analysis



Data Health: Monitor and configure robust alerting for datasets and builds



Preparation: Clean and format your data column-by-column



Code Repo: Write data transformation code for your project in Python or JavaScript



Foundry ML: Manage and deploy machine learning models



Builds: See the current state of your dataset builds.



Scheduler: Schedule builds of data pipelines.



Developer Documentation: How we think, design, and develop for Foundry.



Forms: First-class data entry



Slate: Build Foundry powered apps

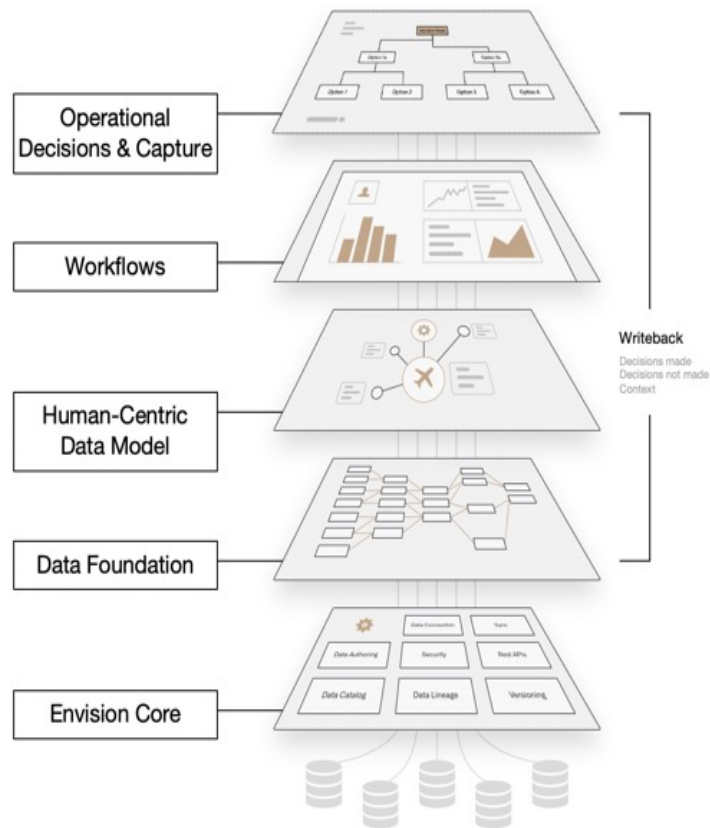


Issues: Report problems, make requests, and ask questions

Envision Users



- **Commanders.** Envision gives commanders and their staff walk-up usable dashboards, reports, views, and task lists to intuitively understand and act on their organization's unified data picture.
- **Airmen and Guardian Users.** Envision gives all members of the DAF the ability to leverage enterprise data to improve the quality and timeliness of their decisions and to collaborate around shared data needs.
- **Analysts.** Envision empowers analysts to spend their time analyzing enterprise-scale data with point-and-click tools. Instead of munging static data in Excel, users can build reports that update automatically – set it and forget it.
- **Airman and Guardian Coders.** Envision allows your most technical Airmen/Guardians (military, civilian, or even support contractors) to go under-the-hood to inspect and edit code for data integration and visualization. Code is written in open-source languages (Python, R, Java, SQL, and JavaScript) and versioning for integrations utilizes Git versioning.
- **Data Operators.** Envision ingests data for exploitation and pipelining in tools to support the DAF Data Fabric team and data operators DAF-wide in accelerating compounding of DAF enterprise data asset.



Building The Data Asset of Tomorrow



8000+

**user accounts as of
August 2022**

*Users come from across the Air Force and Space Force at all echelons
from Commander to Airman/Guardian*

90+

enterprise data sources

*Data types include Personnel, Finance, Operations, Readiness, Aircraft
Maintenance and Logistics, Supply, and COVID-19 data*

25+

**data connection adapters
deployed across enterprise**

*Data sourced across AF/DISA enterprise, DHA, DHHS, CDC and open
source COVID-19*

27+

**lines of effort supported to
date**

*LOEs include topics such as the General Officer Future Assignments
and Strategy Tool, A3T Aircrew Readiness, A1-S1 myData Architecture
Modernization Acceleration, COVID-19 Case Entry*

8+

data sharing partners

Data sharing partners include systems like VAULT, ADVANA, and more

Envision in Action



Used in organizations across the Department of Air Force, Envision is operationalizing the DAF data asset, powering informed decisions, enforcing comprehensive data security, and enabling the next generation of data operations.

General Officer Management Office **Future Assignment Strategy Tool**

In partnership with A1LG the GOFAST workflow enables data-driven decisions to better position DAF GOs to compete for Joint positions and plan career progression to be more competitive in future cycles improving our ability to fully understand and manage the readiness of the force for future roles.

Airman Learning Record

AETC Project Team piloted the Airman Learning Record (ALR) in Envision to consolidate and display education data, trainings, experiences, competencies, and digital credentials for all Airmen, Guardians, and Civilians increasing understanding and the ability to manage readiness of the force for future roles

Aircrew Readiness

Led by the HAF/A3T, Envision worked with 1 FW, 2 BW, and 27 SOW to build out dynamic views of aircrew readiness data, including Flying Hours Program execution, for a diverse set of aircraft (F-22, B-52, CV-22) to understand factors that impact Flying Hours Program Execution and how that affects readiness across weapon systems and Major Commands

The Data



PBH Envision has connections to 90+ data sources from across DAF, DoD, and USG agencies. New connections are continually added to support new use cases. Envision works with each source system to tailor the data connection to meet system-specific requirements and ensure minimal impact to source systems. Additionally, Envision is a component of the DAF Data Fabric and pushes significant amounts of data to other platforms including VAULT and ADVANA, which increases access to data by users across DAF and DoD.

ABS	C2IMERA HQ	DEAMS	IGC	PEX Barksdale (AFGSC)
ADLS	CAMIS_Cadet	DMAPS	ILS-S	PEX Hurlburt (AFSOC)
ADSS	CAMS_FM -Discovery	DMSI	IMDS	PEX Langley AFB
AFFMSII	CAV-AF	DPAS -Discovery	JDRS	PIEE EDA
AFGET	CEMS	DPAS EQUIP -Discovery	JMAR	PIEE WAWF
AFID	CSWS-DE	DRILS	JRAMS	PMRT
AFTOC	CRIS	DRRS-S	LDMS	RAMPOD
AF_COVID_Reporting	D002A -Discovery	DTS	LEAVWEB	REMIS
ALIS	D035C -Discovery	ELICSAR	LOGMOD	RMS
AMREP	D042A -Discovery	Data Discovery	MABSM	SCS -Discovery
ARIS	D043 -Discovery	FPDS	MPES	SLCMS
ARMS	D200A -Discovery	FYDP	MilPDS	TBA
ARMS-LC	D200C -Discovery	G054 -Discovery	M4S	TICMS
AROWS	D200N -Discovery	G081	MyFitness	Tiberius
AROWS_R	DCAPES	GAFS_BL	MyLearning	TSS
ASIMIS	DCPDS	GDSS	MyVector	VAULT_PROD
ASIMS	DDS	GTIMS	OA	WSMIS -Discovery
Air Force MTF Locations	DDS Survey Data	ICE	PEX Omni	STARS
Air Force Manual PPE imports				

To find out more information on these data sources, use the link below:

<https://envision.af.mil/workspace/module/view/latest/ri.workshop.main.module.b5eeb8cf-f223-4b49-aec8-3e9818476e8a>



For more info or set up a demo, please contact the team below.

PBH/Envision Platform contacts:

Dr. Angela Giddings (PBH Executive Sponsor) angela.giddings.2@us.af.mil

Lt Col Kelly Martin (PBH Military Lead) kelly.martin.15@spaceforce.mil

Derek Eichin (SAF CO) derek.eichin@us.af.mil

Mack 'Shac' Curry (PBH Program Management) mcurry.ctr@palantir.com

Dan Miller (PBH Program Management) daniel.miller.151.ctr@us.af.mil

Andrew Raines (PBH Program Management) andrew.raines.3.ctr@us.af.mil

Hayley Welsh hayley.welsh.ctr@us.af.mil

Brynn Richter brynn.richter.ctr@us.af.mil

Naomi Hanfling naomi.hanfling.ctr@us.af.mil

And check us out at <https://envision.af.mil> and <https://envision.af.smil.mil>