

PIDX CODE DATA REPOSITORY IN THE CLOUD

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PIDX PROBLEM

PIDX'S DOWNSTREAM COMMITTEE PRODUCES CODES FOR THE ENERGY INDUSTRY TO STANDARDIZE PRODUCT, COMPANY, TERMINAL, AND REGIONAL DATA.

CODES ARE CURRENTLY MANAGED AND DELIVERED VIA A MANUAL PROCESS WHICH UPDATES & POSTS THE CODES ON SEVERAL EXCEL SPREADSHEETS ON THE PIDX WEB SITE.

IT IS CUMBERSOME TO FIND CODES & THERE IS NO QUICK WAY TO QUERY THE DATA.

MISCELLANEOUS

DOWNSTREAM CODES

- PRODUCT CODES
- COMPANY CODES
- TERMINAL CODES
- REGIONAL CODES
- ADDITIVE BLEND INDICATOR CODES FOR FUELS

DOWNSTREAM PRODUCT CODES

04-101-15-45-2010

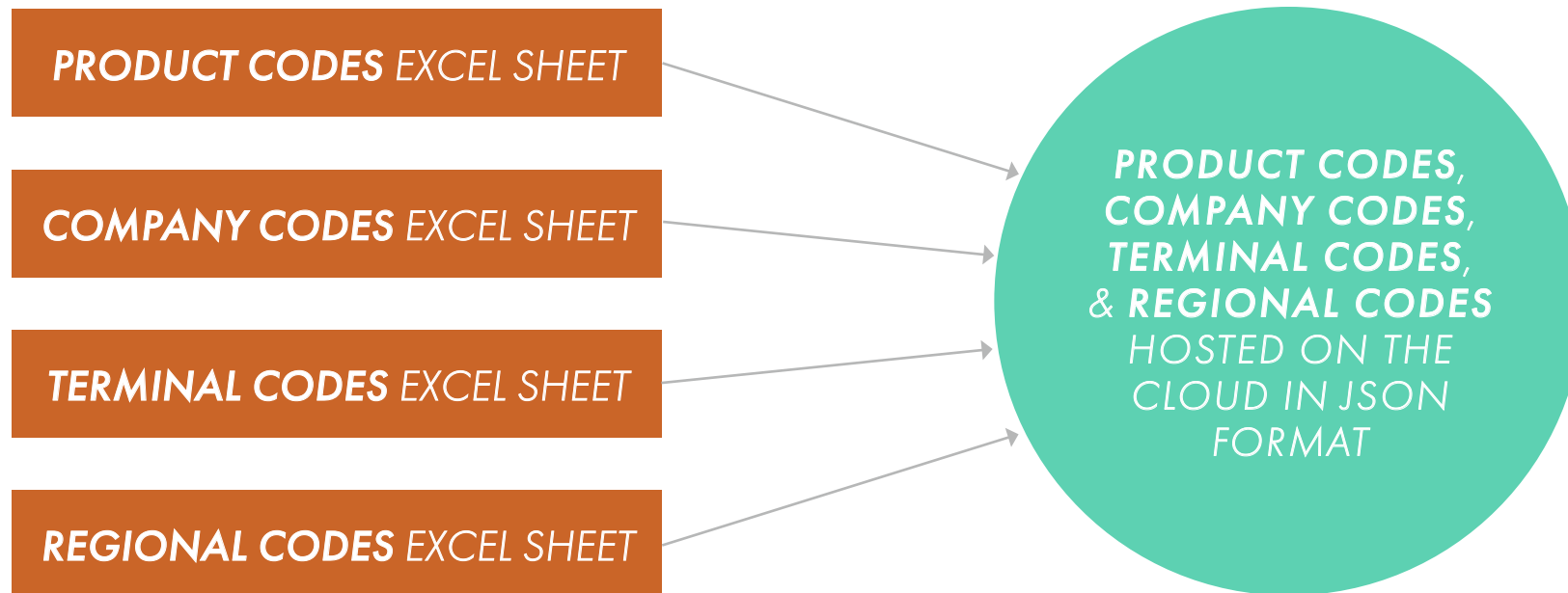
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OBJECTIVE 1

ENABLE ALL PIDX CODES TO BE HOSTED IN THE CLOUD IN DATA REPOSITORIES THAT CAN BE QUERIED & UPDATED IN REAL-TIME

CURRENTLY PIDX DOWNSTREAM CODES INCLUDING PRODUCT, COMPANY, TERMINAL, AND REGIONAL ARE ALL STORED IN SEPARATE EXCEL SPREAD SPREADSHEETS.



OBJECTIVE 2

CREATE A SET OF APIs AND CALLS THAT ALLOWS A USER TO DIRECTLY PULL CODES FROM THE CLOUD

USERS WILL NO LONGER NEED TO VISIT THE PIDX WEBSITE TO
DOWNLOAD AN EXCEL WORKSHEET TO ACCESS THE CODES.

USERS HAVE THE OPTION TO DOWNLOAD THE FULL CODE SET OR A
SUBSET OF CODES THROUGH SEARCH CRITERIA PASSED TO THE API
CALL.

LIVE API URL:

[HTTP://API.PIDX.ORG:8080/API/V1/RESOURCES/CODES/ALL](http://API.PIDX.ORG:8080/API/V1/RESOURCES/CODES/ALL)

```
{
  "result": [
    {
      "cetane_octane": "",
      "code": "A20",
      "comments_": "100/130 LOW LEAD",
      "date_code_assigned": "31-Dec-92",
      "description": "",
      "oxygenate_percent": "",
      "oxygenated_rbob_type": "N",
      "product_definition": "AVIATION GASOLINE",
      "requester": ""
    },
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      "code": "A21",
      "comments_": "AVIATION GASOLINE",
      "date_code_assigned": "30-Apr-19",
      "description": "AVIATION GASOLINE",
      "oxygenate_percent": "",
      "oxygenated_rbob_type": "",
      "product_definition": "Unbranded Aviation Gasoline 100/LL",
      "requester": "BRENT BOWDEN"
    },
    {
      "cetane_octane": "",
      "code": "A25",
      "comments_": "100/130 HIGH LEAD",
      "date_code_assigned": "31-Dec-92",
      "description": "",
      "oxygenate_percent": "",
      "oxygenated_rbob_type": "N",
      "product_definition": "AVIATION GASOLINE",
      "requester": ""
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      "cetane_octane": "",
      "code": "B00",
      "comments_": "Ed79-83%\u00a0ETHANOL/21-17%\u00a0CarFG3 CARB E8",
      "date_code_assigned": "26-Mar-19",
      "description": "ALTERNATIVE FUEL - Ed79-83",
      "oxygenate_percent": "79-83",
      "oxygenated_rbob_type": "A",
      "product_definition": "FUEL ETHANOL",
      "requester": "STEVE WOOD"
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      "cetane_octane": "",
      "code": "B01",
      "comments_": "Ed85 85% ETHANOL/15% REGULAR GASOLINE",
      "date_code_assigned": "20-Jul-04",
      "description": "ALTERNATIVE FUEL - Ed85",

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OBJECTIVE 3

PROVIDE A USER-FRIENDLY INTERFACE ON THE PIDX WEBSITE THAT ALLOWS USERS TO FILTER AND SEARCH IN THE CODE REPOSITORIES

THE SEARCH FORM WILL USE THE PIDX API CALLS TO RETRIEVE DATA FROM THE REPOSITORIES.

FILTER SEARCH

ENTER A CODE

ENTER A PRODUCT DEFINITION

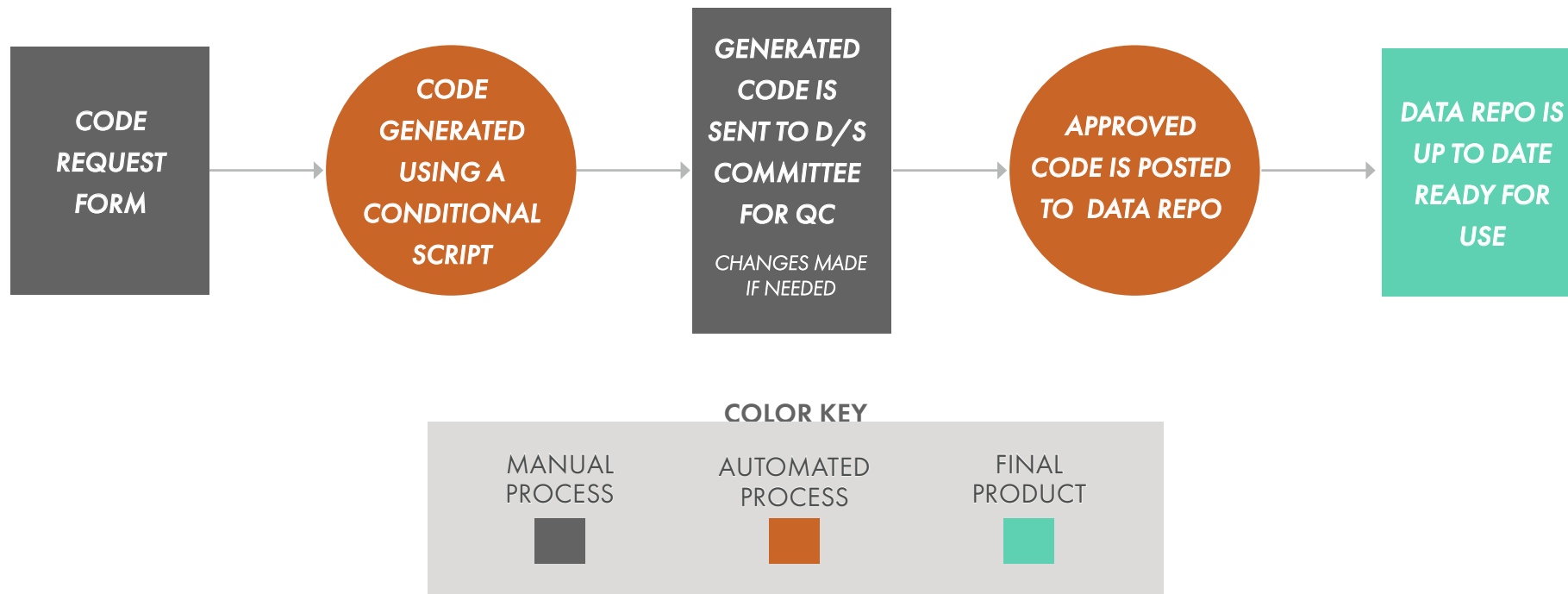
ENTER CETANE OCTANE

ENTER REQUESTER

CETANE OCTANE	CODE	COMMENTS	DATE CODE ASSIGNED	DESCRIPTION	OXYGENATE PERCENT	OXYGENATED	PRODUCT DEFINITION	REQUESTER
A20	100/130 LOW LEAD		31-DEC-92			N	AVIATION GASOLINE	
A21	AVIATION GASOLINE		30-APR-19	AVIATION GASOLINE			UNBRANDED AVIATION GASOLINE 100/LL	BRENT BOWDEN
A25	100/130 HIGH LEAD		31-DEC-92			N	AVIATION GASOLINE	
B00	ED79-83% ETHANOL/21-17% CARFG3 CARB E85 FUEL CLASS 2		26-MAR-19	ALTERNATIVE FUEL - ED79-83	79-83	A	FUEL ETHANOL	STEVE WOOD
B01	ED85 85% ETHANOL/15% REGULAR GASOLINE		20-JUL-04	ALTERNATIVE FUEL - ED85	85	A	FUEL ETHANOL	JEAN PICKETT
B02	ED80 80% ETHANOL/20% REGULAR GASOLINE		20-JUL-04	ALTERNATIVE FUEL - ED80	80	A	FUEL ETHANOL	JEAN PICKETT
B03	ED75 75% ETHANOL/25% REGULAR GASOLINE		20-JUL-04	ALTERNATIVE FUEL - ED75	75	A	FUEL ETHANOL	JEAN PICKETT
B04	ED70 70% ETHANOL/30% REGULAR GASOLINE		6-JAN-06	ALTERNATIVE FUEL - ED70	70	A	FUEL ETHANOL	HERMAN WISNESKI
B05	ED85 85% ETHANOL/15% SUBGRADE 84 GASOLINE		5-DEC-08	ALTERNATIVE FUEL - ED85	85	A	FUEL ETHANOL	MARGARET WARD

LONG-TERM GOAL

1. CLOUD-BASED CODE DATA REPOSITORIES AND A SET OF APIs AND CALLS TO PULL DATA
2. ONLINE CODE-REQUEST FORM THAT AUTOMATICALLY GENERATES A NEW CODE
3. CODE DATA REPOSITORIES AUTOMATICALLY UPDATED WITH GENERATED CODES ONCE APPROVED BY THE COMMITTEE



PATH FORWARD

CURRENT PROGRESS

DATABASE IS **HOSTED IN THE CLOUD** ON A PIDX SERVER. **TEST APIs AND SEARCH WEB PAGES** HAVE BEEN DEVELOPED FOR THE **PRODUCT AND TERMINAL CODES**.

THE PROJECT TEAM PROPOSAL HAS BEEN CREATED FOR THIS PROJECT AS PART OF THE **INDUSTRIAL DATA EXCHANGE PROJECT** STRATEGIC INITIATIVE, THE PROJECT NEEDS ONE MORE SPONSOR TO MOVE FORWARD.

PATH FORWARD

THE PROJECT TEAM WILL NEED TECHNICAL RESOURCES TO HELP **BUILD THE PLATFORM AND AUTOMATE THE PROCESSES**.

THE DATA REPOSITORIES CAN BE DEVELOPED TO HOUSE OTHER INDUSTRY DATA SUCH AS EMISSIONS REPORTING DATA AND BECOME A **RESOURCE WHERE THE ENERGY INDUSTRY CAN PULL DATA IN A SECURE AND EFFICIENT WAY**.

CONTACT INFORMATION

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