



CITY INFOGRAPHICS

Here is where this
template begins

Mercury is the closest planet to the Sun and the smallest one

Saturn is composed of hydrogen and helium and is the ringed one

Venus has a beautiful name and is the second planet from the Sun

Mars is actually a cold place. It's full of iron oxide dust

Jupiter is a gas giant and the biggest planet in the Solar System

Neptune is the farthest planet from the Sun and the fourth-largest one

CITY INFOGRAPHICS

✓ MERCURY

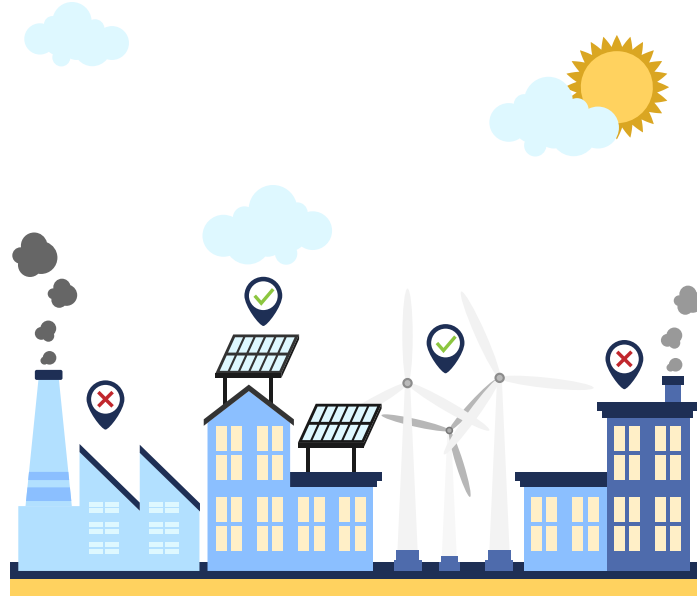
Mercury is the closest planet to the Sun and the smallest one

✓ SATURN

Saturn is composed of hydrogen and helium and is the ringed one

✓ VENUS

Venus has a beautiful name and is the second planet from the Sun



MARS ✗

Mars is actually a cold place. It's full of iron oxide dust

JUPITER ✗

Jupiter is a gas giant and the biggest planet in the Solar System

NEPTUNE ✗

Neptune is the farthest planet from the Sun and the fourth-largest one

Distribution des tâches

Installation Azure (David)

DevOps (David)

Tests (David)

Chargement base (David)

Flow Dataiku (Manu)

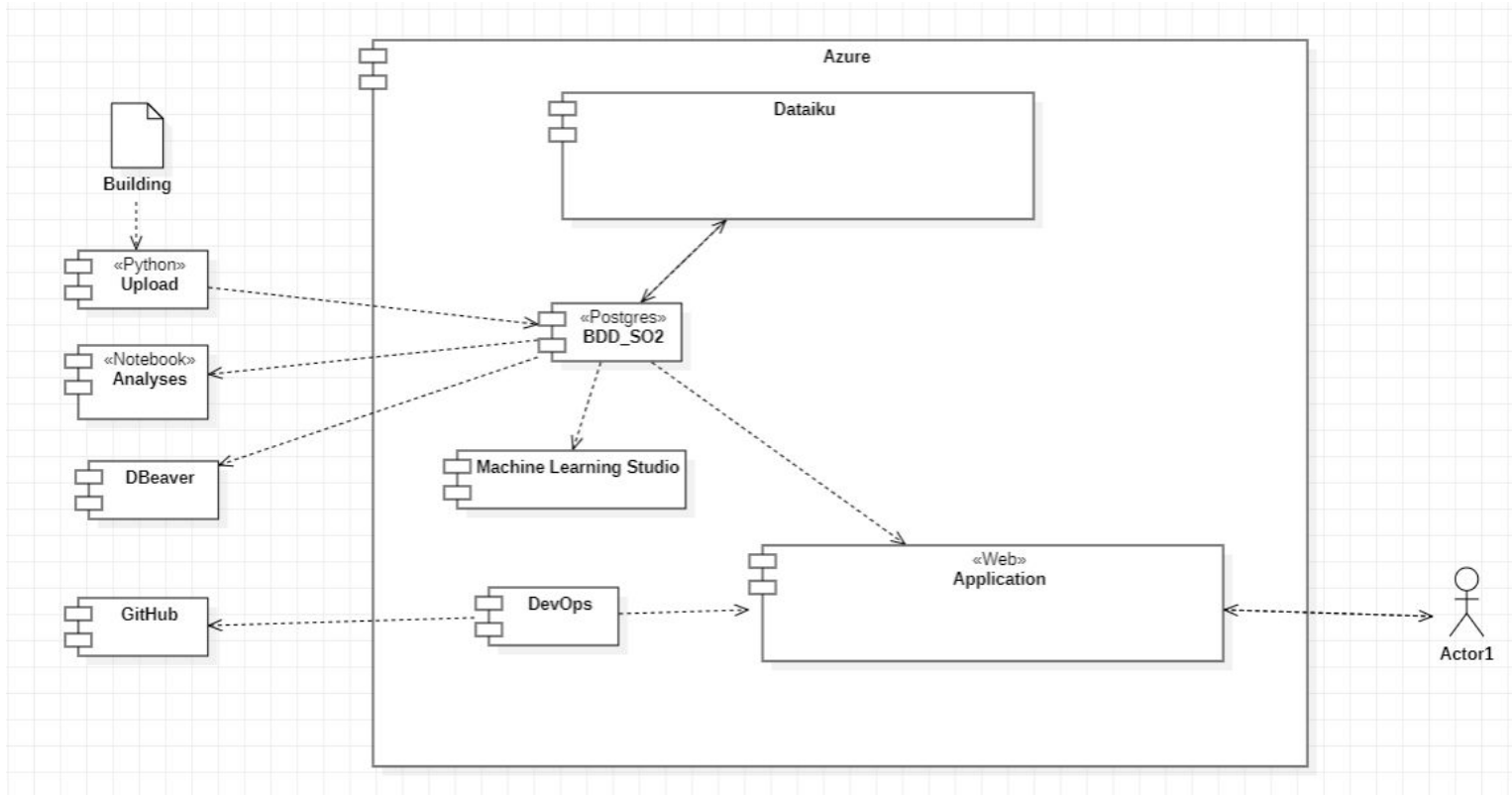
Imputations (Manu)

Analyses (Manu)

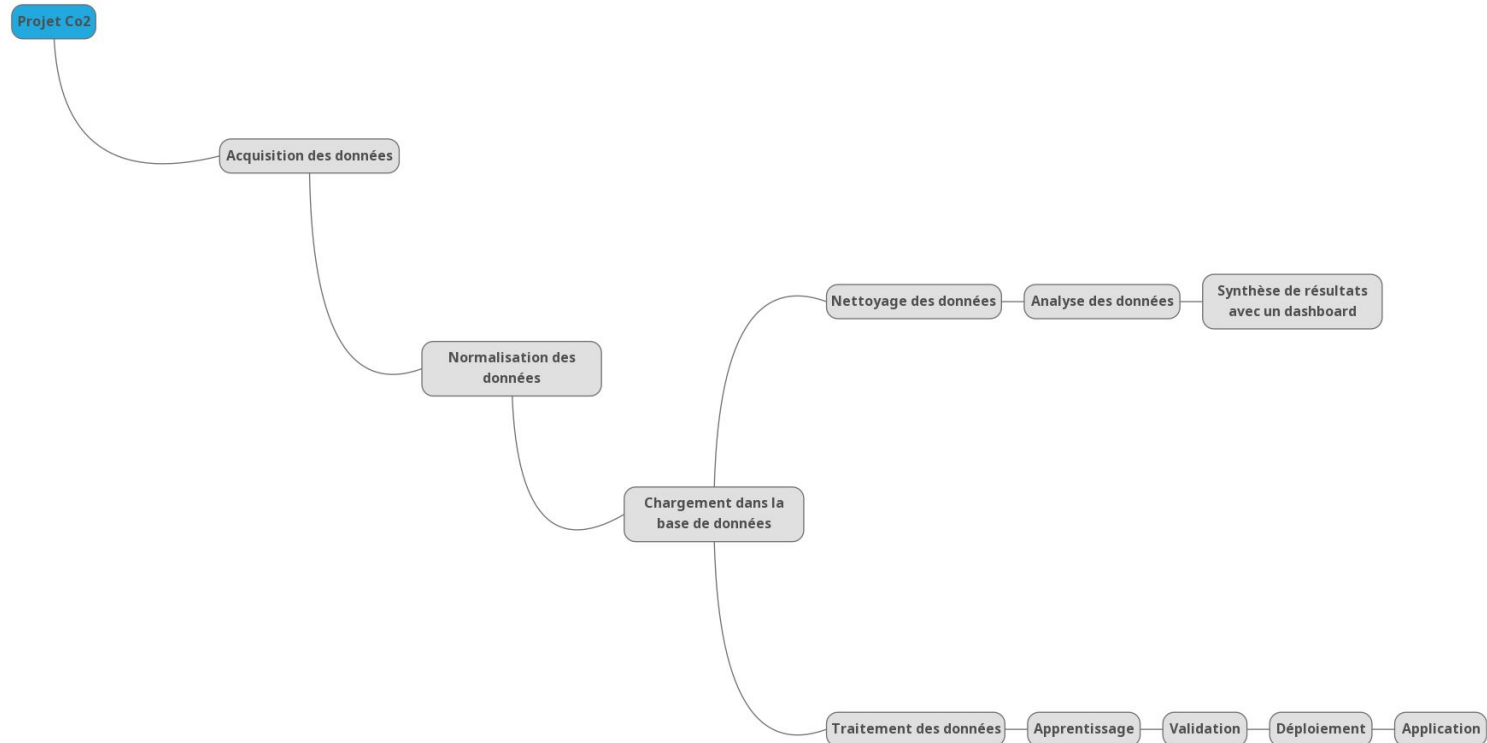
Conception de models
(Manu, David)

Présentation (Manu, David)

Installation, DevOps, Tests, Chargement Base.



Schema fonctionnel



Flow Dataiku



Nettoyage de base de données

Suppression de colonnes

SUMMARY

Valid	3,376	100.0 %
Hapax	0	0.0 %
Invalid	0	0.0 %
Empty	0	0.0 %

0 HAPAXES 0.0 %

0 INVALIDS 0.0 %

Top 1 out of 1 values in sample

	Count	%	Cum. %
2016	3376	100.0	100.0

SUMMARY

Valid	3,376	100.0 %
Hapax	0	0.0 %
Invalid	0	0.0 %
Empty	0	0.0 %

0 HAPAXES 0.0 %

0 INVALIDS 0.0 %

Top 1 out of 1 values in sample

	Count	%	Cum. %
Seattle	3376	100.0	100.0

Nettoyage de base de données

Suppression de colonnes

SUMMARY

Valid	3,376	100.0 %
Hapax	3,349	99.2 %
Invalid	0	0.0 %
Empty	0	0.0 %

3349 HAPAXES 99.2 %

- #4706 Bitterlake
- #8944 West Seattle
- (71367A) SEATTLE Macy's
- (71371A) NORTHGATE Macy's

0 INVALIDS 0.0 %

Top 50 out of 3362 values in sample

	Count	%	Cum. %
Northgate Plaza	3	0.1	0.1
Airport Way	2	0.1	0.1
Bayview Building	2	0.1	0.2
Canal Building	2	0.1	0.3
Central Park	2	0.1	0.3
Crestview Apartments	2	0.1	0.4
Fairview	2	0.1	0.4

Idem pour adresse

Nettoyage de base de données

Suppression de colonnes

<input type="checkbox"/> Comments	Text	100.00%	<div><div></div></div>	⚙
<input type="checkbox"/> YearsENERGYSTARCertified	Integer	96.48%	<div><div></div></div>	⚙
<input type="checkbox"/> ThirdLargestPropertyUseType	Text	82.35%	<div><div></div></div>	⚙
<input type="checkbox"/> ThirdLargestPropertyUseType...	Decimal	82.35%	<div><div></div></div>	⚙
<input type="checkbox"/> SecondLargestPropertyUseType	Text	50.27%	<div><div></div></div>	⚙
<input type="checkbox"/> SecondLargestPropertyUseTyp...	Decimal	50.27%	<div><div></div></div>	⚙

Nettoyage de base de données

Suppression outliers

☐ Outlier

Text

99.05%

SUMMARY

Valid	3,376	100.0 %
Hapax	0	0.0 %
Invalid	0	0.0 %
Empty	3,344	99.1 %
0 HAPAXES		0.0 %
0 INVALIDS		0.0 %

Top 3 out of 3 values in sample

	Count	%	Cum. %
No value	3344	99.1	99.1
Low outlier	23	0.7	99.7
High outlier	9	0.3	100.0

Nettoyage de base de données

Suppression des features quantitatives liées à la target

<input type="checkbox"/> SiteEUIWN_kBtu_sf_	Decimal	99.82%	<div><div></div></div>	
<input type="checkbox"/> SourceEUI_kBtu_sf_	Decimal	99.73%	<div><div></div></div>	
<input type="checkbox"/> SourceEUIWN_kBtu_sf_	Decimal	99.73%	<div><div></div></div>	
<input type="checkbox"/> SiteEnergyUse_kBtu_	Decimal	99.85%	<div><div></div></div>	
<input type="checkbox"/> SiteEnergyUseWN_kBtu_	Decimal	99.82%	<div><div></div></div>	
<input type="checkbox"/> SteamUse_kBtu_	Decimal	99.73%	<div><div></div></div>	
<input type="checkbox"/> Electricity_kBtu_	Decimal	99.73%	<div><div></div></div>	
<input type="checkbox"/> NaturalGas_kBtu_	Decimal	99.73%	<div><div></div></div>	

Nettoyage de base de données

Imputation NumberofBuildings

```
D. "Neighborhood",  
CASE WHEN "NumberofBuildings" IS NULL THEN 1 else "NumberofBuildings" END AS "NumberofBuildings",  
b. "NumberofFloors"
```

SUMMARY

Valid ●	3,376	100.0 %
Hapax ⓘ	6	0.2 %
Invalid ●	0	0.0 %
Empty ●	8	0.2 %

SUMMARY

Valid ●	3,367	100.0 %
Hapax ⓘ	6	0.2 %
Invalid ●	0	0.0 %
Empty ●	0	0.0 %



Nb_building = f(Nb_Floors)


	123 NumberofFloors	123 round
1	4	1
2	3	1
3	2	1

Nettoyage de base de données

Imputation LargestPropertyUseType

```
d. PropertyGFABuilding_s_ ,  
CASE WHEN "LargestPropertyUseTypeGFA" IS NULL THEN "PropertyGFABuilding_s_" else "LargestPropertyUseTypeGFA" end as "LargestPropertyUseTypeGFA",  
h "SecondLargestPropertyUseTypeGFA"
```

SUMMARY



Valid ●	3,376	100.0 %
Hapax ⓘ	2,977	88.2 %
Invalid ●	0	0.0 %
Empty ○	20	0.6 %

Nettoyage de base de données

Imputation ZIPCode

Requête SQL.

```
CASE WHEN "ZipCode" IS NULL THEN (  
  select  
    zipcode  
  from  
    public."CO2_imputezipcode"  
  where  
    notzipLong = "Longitude"  
    and notzipLat = "Latitude"  
) else "ZipCode" END AS "ZipCode",
```

zipcode	notziplong	notziplat
double Decimal	double Decimal	double Decimal
98125.0	-122.32232	47.70541
98144.0	-122.29787	47.59905
98117.0	-122.37717	47.6933
98125.0	-122.29735	47.72126
98107.0	-122.39228	47.67295
98117.0	-122.37624	47.67734
98119.0	-122.37525	47.63572
98112.0	-122.31574	47.63228
98122.0	-122.30225	47.60775
98118.0	-122.27813	47.5644
98126.0	-122.37441	47.54067
98108.0	-122.31154	47.56722
98104.0	-122.32283	47.59625
98109.0	-122.35784	47.63644
98108.0	-122.32431	47.52832
98108.0	-122.29536	47.53939

Nettoyage de base de données

Imputation ENERGYSTARScore

SUMMARY

Valid ●	3,376	100.0 %
Hapax ⓘ	0	0.0 %
Invalid ●	0	0.0 %
Empty ○	843	25.0 %

	123 energystarscore_imputation ▼	123 count ▼	123 deceny ▼
1	77	138	1 900
2	76	126	1 910
3	78	220	1 920
4	68	53	1 930
5	75	60	1 940
6	75	161	1 950
7	70	356	1 960
8	67	251	1 970
9	74	350	1 980
10	76	265	1 990
11	76	361	2 000
12	93	192	2 010

Transformation de features

Utilise un type d'énergie

<input type="checkbox"/> SteamUse_kBtu_	Decimal
<input type="checkbox"/> Electricity_kBtu_	Decimal
<input type="checkbox"/> NaturalGas_kBtu_	Decimal



<input type="checkbox"/> Have_Stream_Energy	Boolean
<input type="checkbox"/> Have_Electricity_Energy	Boolean
<input type="checkbox"/> Have_NaturalGas_Energy	Boolean

```
b."SteamUse_kBtu_" > 0.0 as "Have_Stream_Energy",  
b."Electricity_kBtu_" > 0.0 as "Have_Electricity_Energy",  
b."NaturalGas_kBtu_" > 0.0 as "Have_NaturalGas_Energy",
```

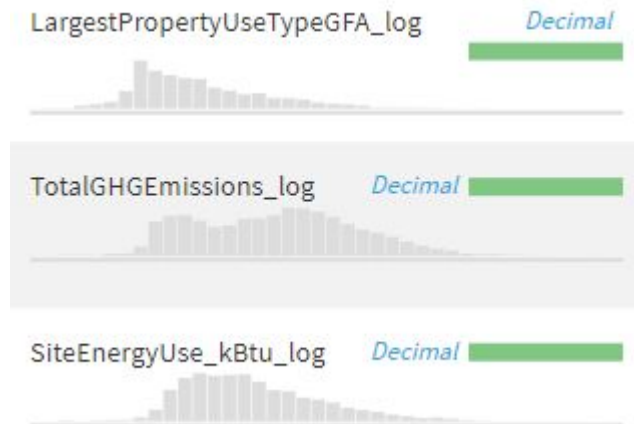
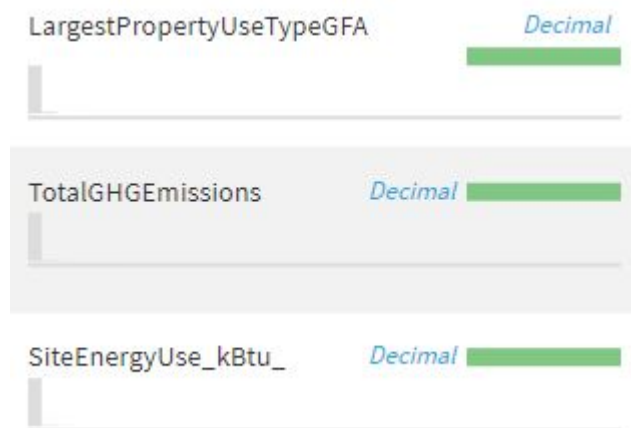


SUMMARY			Top 2 out of 2 values in sample			Count	%	Cum. %
Valid *	3,314	100.0 %	true			2090	63.1	63.1
Hapax Ⓢ	0	0.0 %						
Invalid *	0	0.0 %	false			1224	36.9	100.0
Empty *	0	0.0 %						

Transformation de features

Log de features

```
log ("LargestPropertyUseTypeGFA") as "LargestPropertyUseTypeGFA_log",  
log ("TotalGHGEmissions") as "TotalGHGEmissions_log",  
log ("SiteEnergyUse_kBtu_") as "SiteEnergyUse_kBtu_log"
```



Sélection de features

<input type="checkbox"/> YearBuilt	Integer	100.00%	<div></div>
<input type="checkbox"/> BuildingType	Text	100.00%	<div></div>
<input type="checkbox"/> Neighborhood	Text	100.00%	<div></div>
<input type="checkbox"/> Have_Stream_Energy	Boolean	100.00%	<div></div>
<input type="checkbox"/> Have_Electricity_Energy	Boolean	100.00%	<div></div>
<input type="checkbox"/> Have_NaturalGas_Energy	Boolean	100.00%	<div></div>
<input type="checkbox"/> PrimaryPropertyType	Text	100.00%	<div></div>
<input type="checkbox"/> NumberofBuildings	Integer	100.00%	<div></div>
<input type="checkbox"/> LargestPropertyUseTypeGFA	Decimal	100.00%	<div></div>
<input type="checkbox"/> TotalGHGEmissions	Decimal	100.00%	<div></div>
<input type="checkbox"/> SiteEnergyUse_kBtu_	Decimal	100.00%	<div></div>
<input type="checkbox"/> LargestPropertyUseTypeGF...	Decimal	100.00%	<div></div>
<input type="checkbox"/> TotalGHGEmissions_log	Decimal	100.00%	<div></div>
<input type="checkbox"/> SiteEnergyUse_kBtu_log	Decimal	100.00%	<div></div>

On conserve les targets,
TotalGHGEmission et SiteEnergyUse.

On cherche à prédire les deux
targets en fonction du projet.

Un projet intègre :

- Des types d'énergie.
- Des usages (résidentiels).
- Une zone géographique (quartier).
Une surface.
- Un nombre de bâtiments.

La date de construction de
bâtiments est un élément temporel.

Analyses

▼ A Have_Electricity... 🗑️ ⋮

▼ Histogram



▼ Summary stats

N values	3314
N distinct	2
Mode	true
N empty	0

▼ Frequency table

true	100%	3313
false	0%	1
N distinct		2

▼ A Have_NaturalGa... 🗑️ ⋮

▼ Histogram



▼ Summary stats

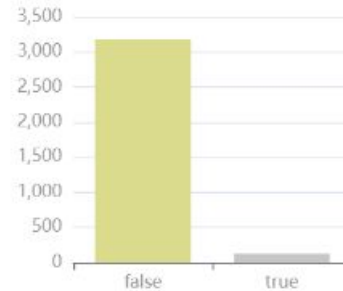
N values	3314
N distinct	2
Mode	true
N empty	0

▼ Frequency table

true	63%	2090
false	37%	1224
N distinct		2

▼ A Have_Stream_En... 🗑️ ⋮

▼ Histogram



▼ Summary stats

N values	3314
N distinct	2
Mode	false
N empty	0

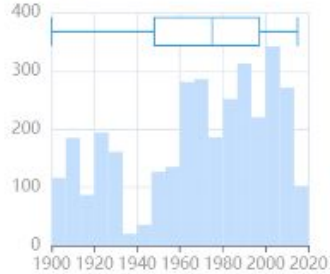
▼ Frequency table

false	96%	3185
true	4%	129
N distinct		2

Analyses

YearBuilt

Histogram

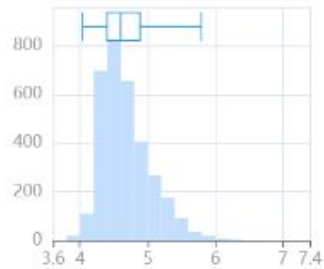


Summary stats

N values	3314
N distinct	113
Mean	1968.6976463
Median	1975
Min	1900
Max	2015

LargestPropertyUse...

Histogram

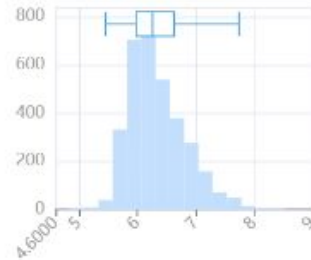


Summary stats

N values	3314
N distinct	3085
N finite	3314
Mean	4.6776795338
Median	4.6009075784
Std Dev	0.370895892
Min	3.7525094008
Max	6.9694231816

SiteEnergyUse_kBt...

Histogram

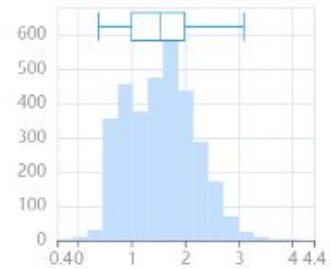


Summary stats

N values	3314
N distinct	3314
N finite	3314
Mean	6.3401236674
Median	6.2604589349
Std Dev	0.493740552
Min	4.7568885434
Max	8.9414735231

TotalGHGEmissions...

Histogram



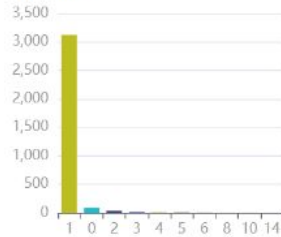
Summary stats

N values	3314
N distinct	2782
N finite	3314
Mean	1.5286686172
Median	1.5350407393
Std Dev	0.6453773932
Min	-0.397940009
Max	4.2271403106

Analyses

NumberofBuildings

Histogram



Summary stats

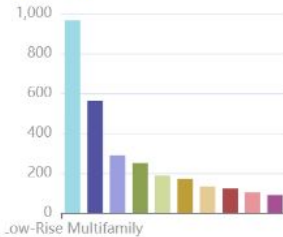
N values	3314
N distinct	17
Mode	1
N empty	0

Frequency table

1	94%	3123
0	3%	92
2	1%	36
3	1%	22
4	0%	12
5	0%	9
6	0%	5
8	0%	3
10	0%	2

PrimaryPropertyTy...

Histogram



Summary stats

N values	3314
N distinct	24
Mode	Low-Rise Multifamily
N empty	0

Frequency table

Low-Rise Multifamily	29%	966
Mid-Rise Multifamily	17%	561
Small- and Mid-Sized Office	9%	288
Other	8%	250
Warehouse	6%	187
Large Office	5%	170
Mixed Use Property	4%	132
K-12 School	4%	123

Neighborhood

Histogram



Summary stats

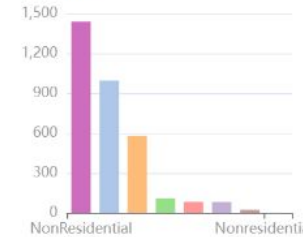
N values	3314
N distinct	19
Mode	DOWNTOWN
N empty	0

Frequency table

DOWNTOWN	17%	562
EAST	14%	448
MAGNOLIA / QUEEN ANNE	13%	415
GREATER DUWAMISH	11%	371
NORTHEAST	8%	274
LAKE UNION	8%	249
NORTHWEST	6%	208
SOUTHWEST	5%	157

BuildingType

Histogram



Summary stats

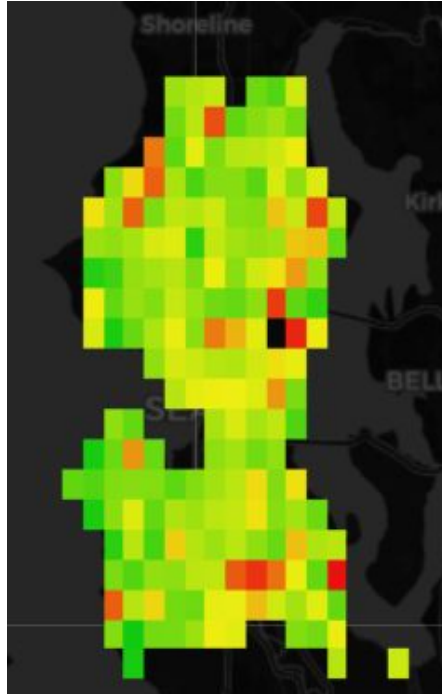
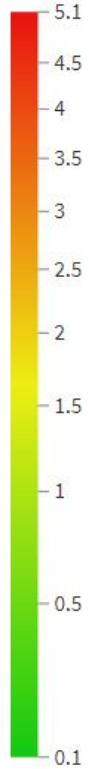
N values	3314
N distinct	8
Mode	NonResidential
N empty	0

Frequency table

NonResidential	43%	1439
Multifamily LR (1-4)	30%	996
Multifamily MR (5-9)	17%	578
Multifamily HR (10+)	3%	109
Nonresidential COS	3%	84
SPS-District K-12	3%	83
Campus	1%	24
Nonresidential WA	0%	1
N distinct		8

Analyses

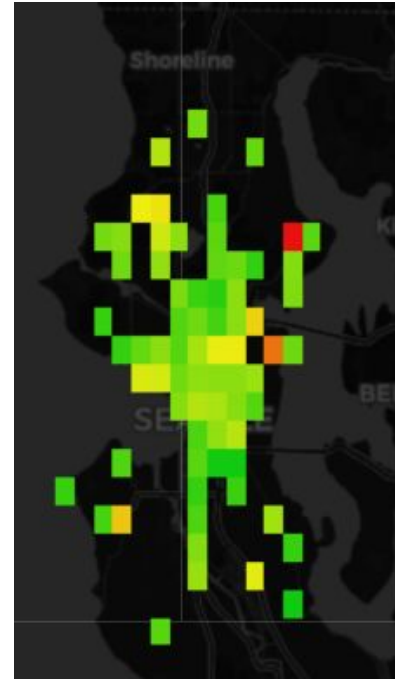
Émissions globales apportées à la surface par tranche d'années de construction



1900-1920



1921-1940

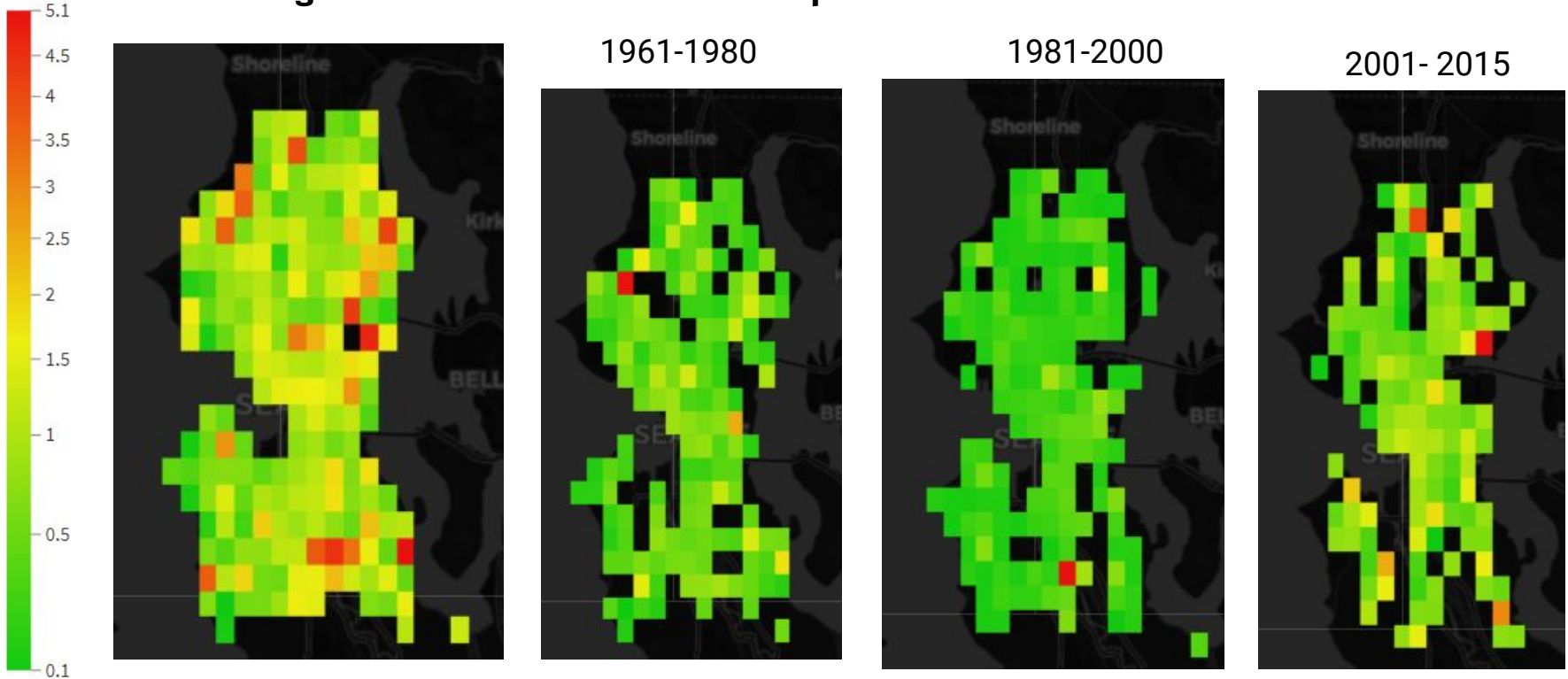


1941-1960



Analyses

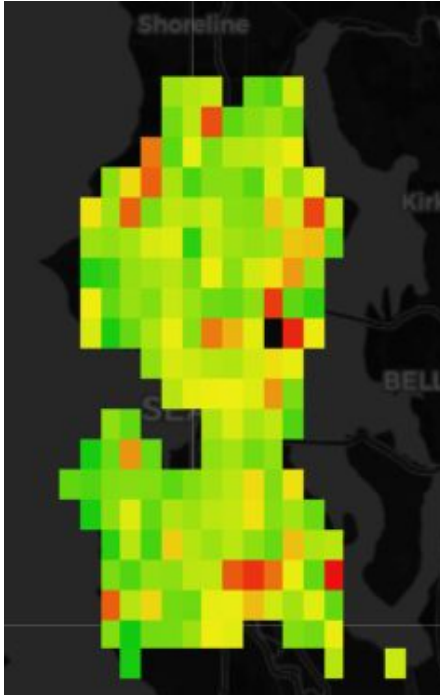
Émissions globales en fonction de la surface par tranche d'années de construction



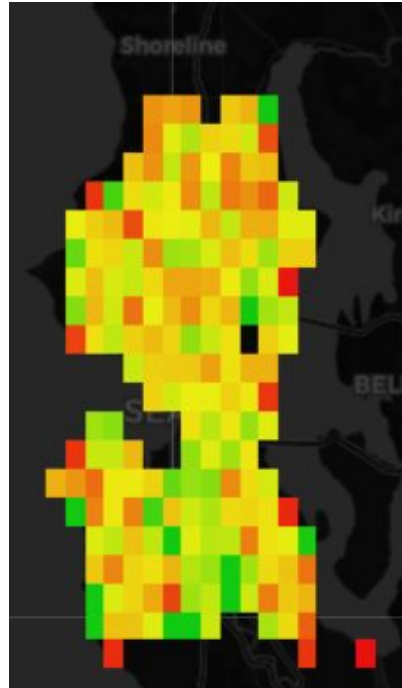
Analyses

Émissions globales à comparer avec les évaluation de EnergyStarScore

Emissions



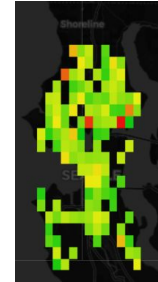
EnergyStarScore



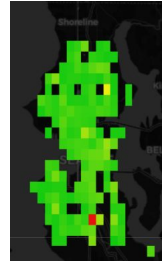
1900-1920



1941-1960

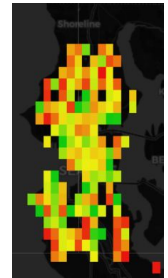
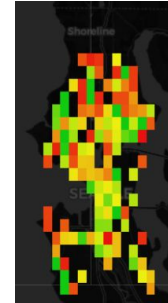
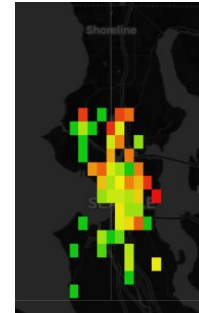


1981-2000



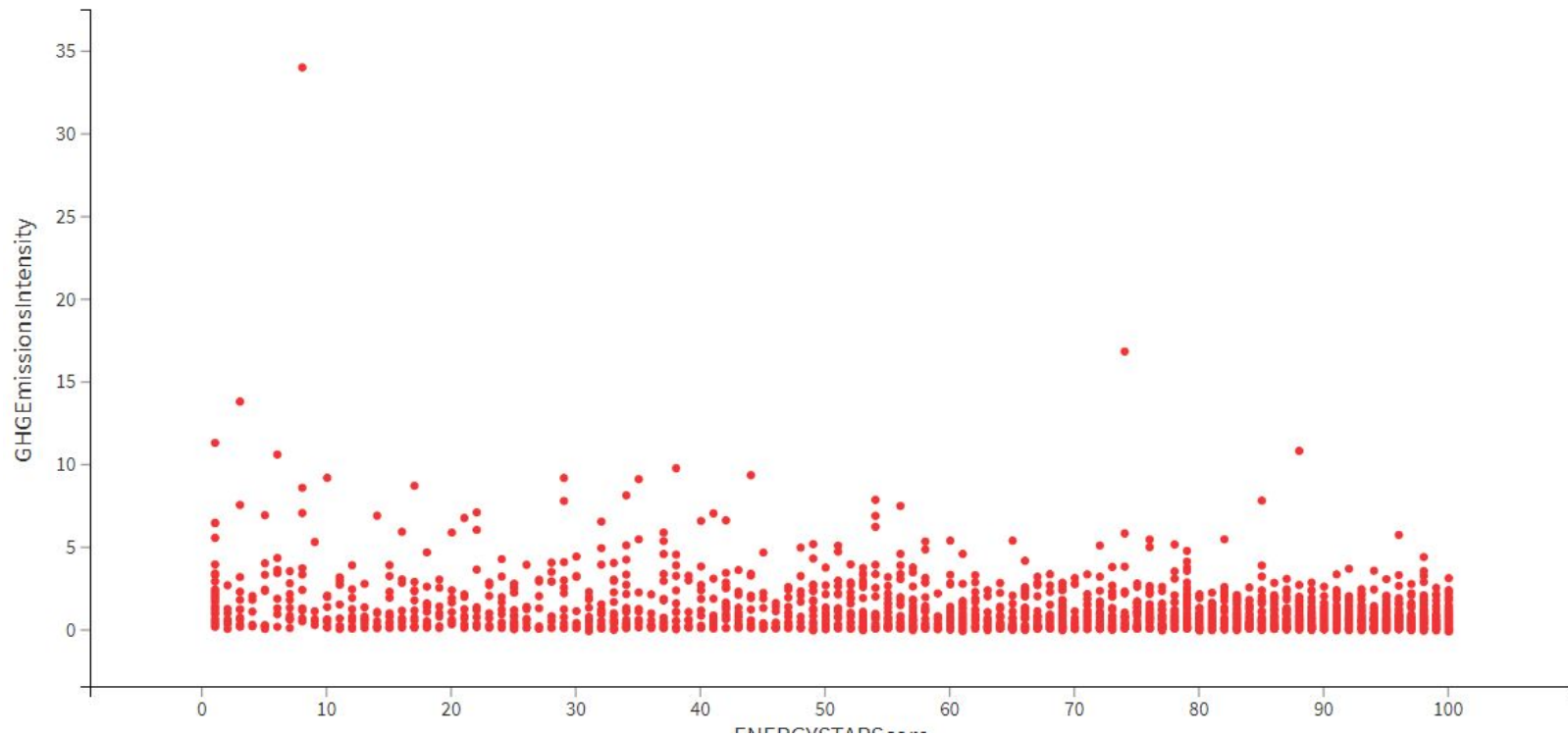
Emissions

Score



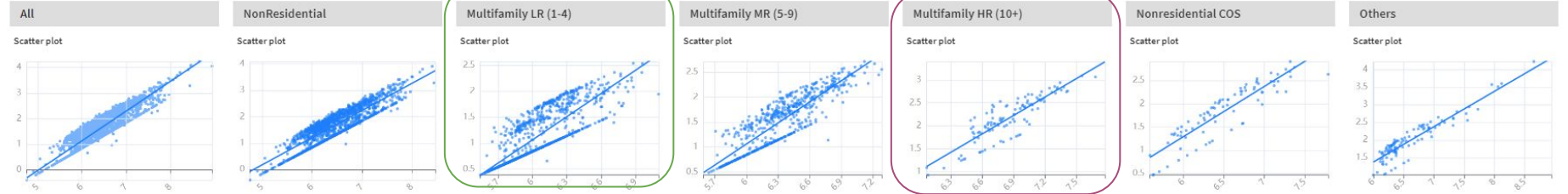
ENERGYSTARScore vs GHGEmissionsIntensity

2533 / 3367 records



Analyses

TotalGHGEmissions_log by # SiteEnergyUse_kBtu_log split by BuildingType



▼ All

LargestPro...	1.000	0.736	0.571
SiteEnergy...	0.736	1.000	0.878
TotalIGHGE...	0.571	0.878	1.000
LargestPropertyUs...	SiteEnergyUse_kBt...	TotalIGHGEmissions...	

▼ BuildingType: Multifamily LR (1-4)

LargestPro...	1.000	0.690	0.428
SiteEnergy...	0.690	1.000	0.847
TotalIGHGE...	0.428	0.847	1.000
LargestPropertyUs...	SiteEnergyUse_kBt...	TotalIGHGEmissions...	

▼ BuildingType: Multifamily HR (10+)

LargestPro...	1.000	0.907	0.704
SiteEnergy...	0.907	1.000	0.854
TotalIGHGE...	0.704	0.854	1.000
LargestPropertyUs...	SiteEnergyUse_kBt...	TotalIGHGEmissions...	

Analyses

▼ # SiteEnergyUse_kBtu_log by # LargestPropertyUseTypeGFA_log split by Have_NaturalGas_Energy

▼ All

⋮

▼ true

⋮

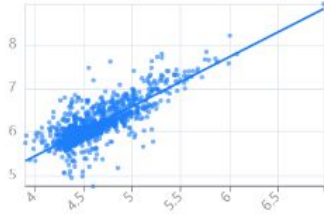
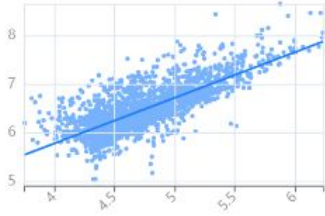
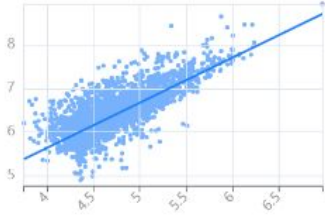
▼ false

⋮

▼ Scatter plot

▼ Scatter plot

▼ Scatter plot



▼ # TotalGHGEmissions_log by # LargestPropertyUseTypeGFA_log split by Have_NaturalGas_Energy

▼ All

⋮

▼ true

⋮

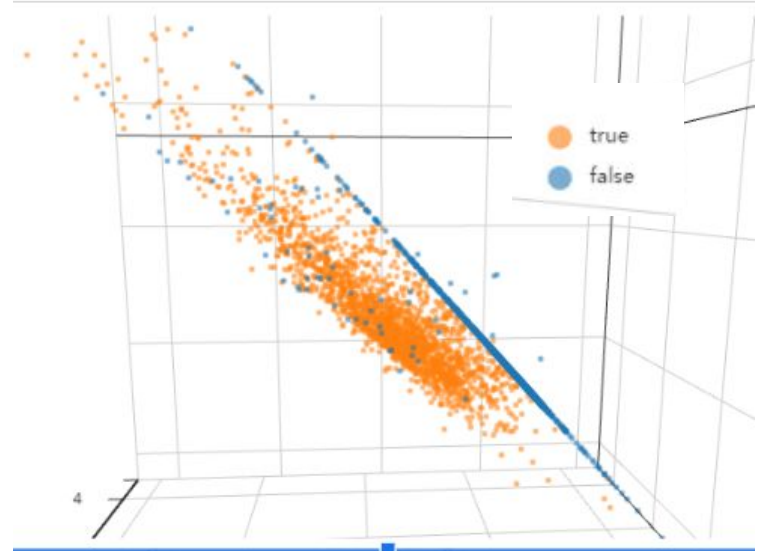
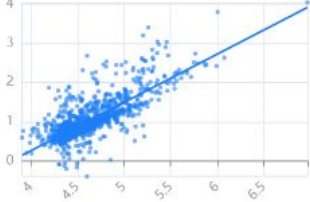
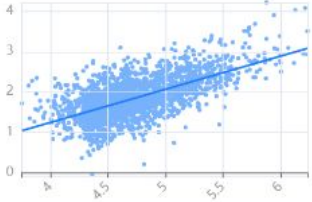
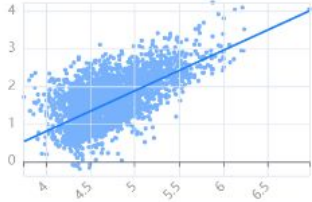
▼ false

⋮

▼ Scatter plot

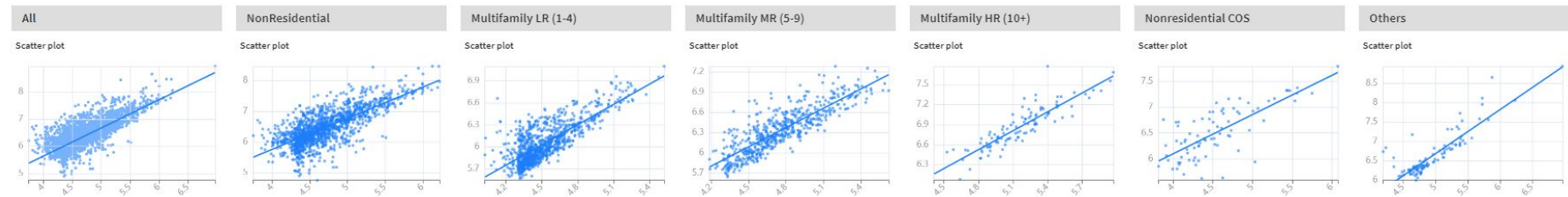
▼ Scatter plot

▼ Scatter plot

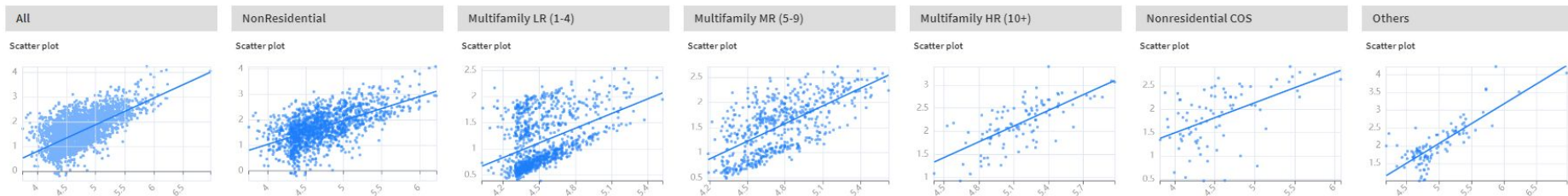


Analyses

SiteEnergyUse_kBtu_log by # LargestPropertyUseTypeGFA_log split by BuildingType



TotalGHGEmissions_log by # LargestPropertyUseTypeGFA_log split by BuildingType

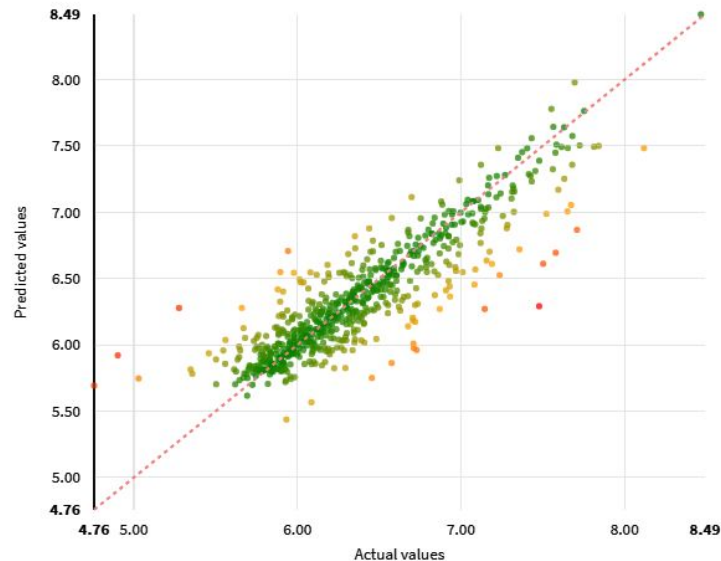
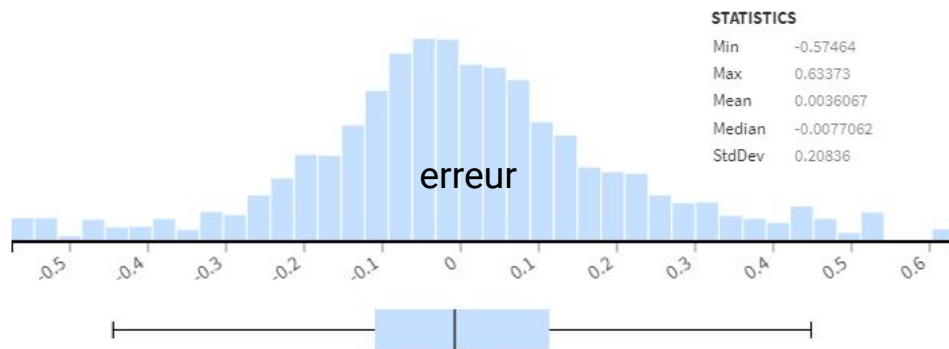


Prospection de modèles

Avec Dataiku (SiteEnergyUse)

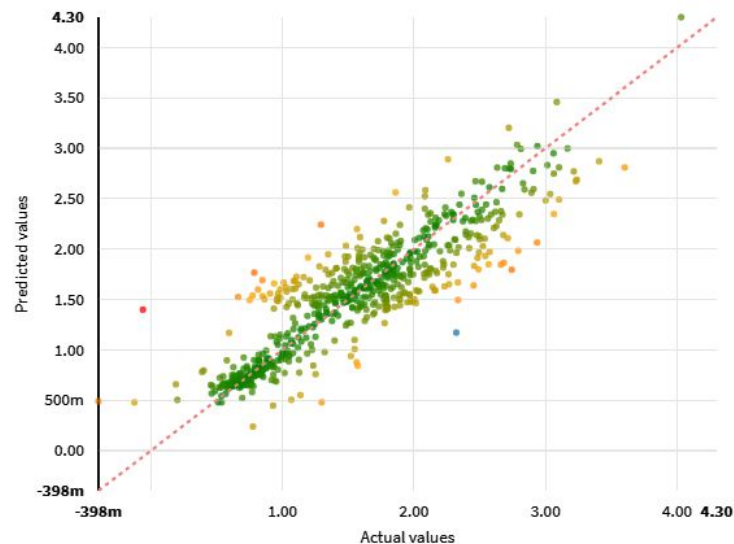
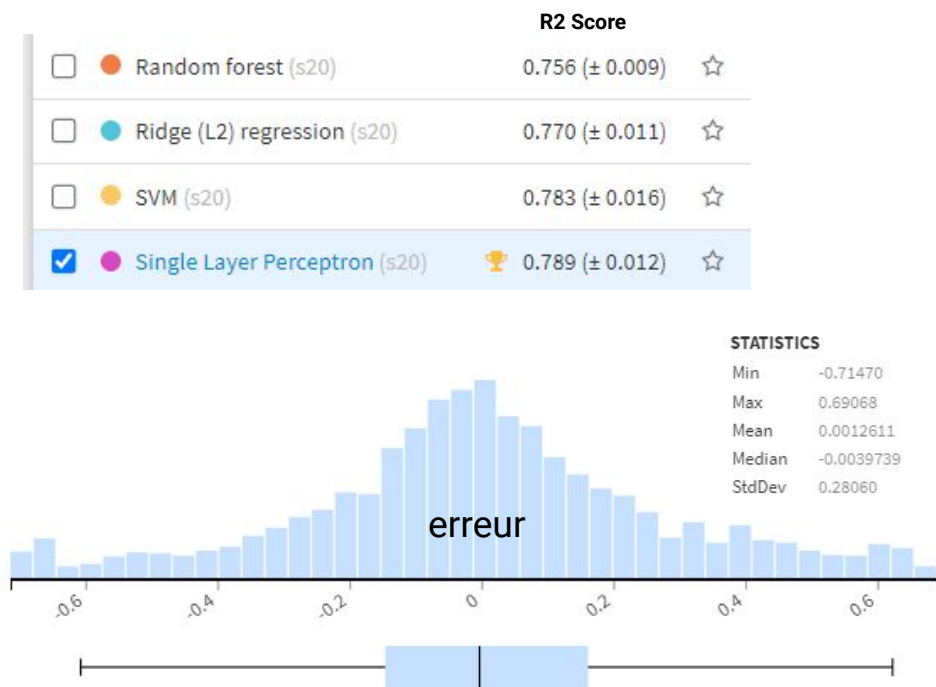
R2 Score

<input type="checkbox"/>	Random forest (s19)	0.748 (± 0.027)	☆
<input type="checkbox"/>	Ridge (L2) regression (s19)	0.780 (± 0.024)	☆
<input checked="" type="checkbox"/>	SVM (s19)	🏆 0.785 (± 0.024)	☆
<input type="checkbox"/>	Single Layer Perceptron (s19)	0.740 (± 0.168)	☆



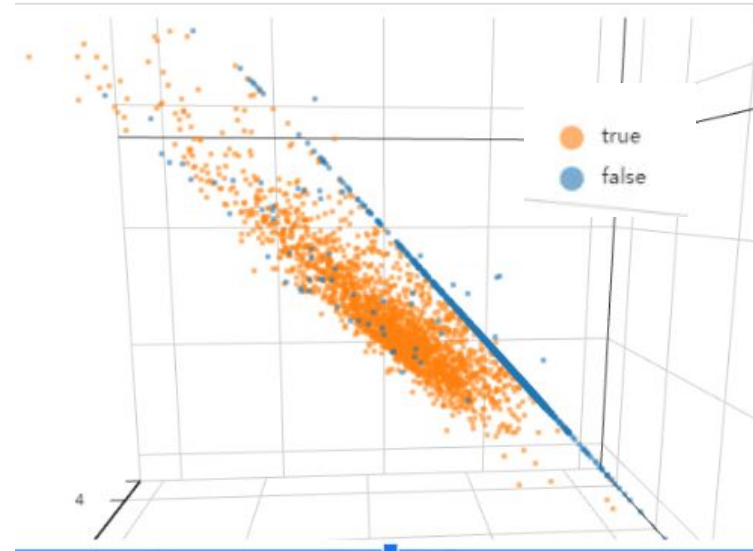
Prospection de modèles

Avec Dataiku (TotalGHGEmission)



Prospection de modèles

Avec Dataiku (TotalGHGEmission si avec GazEnergy ou sans GazEnergy)



Prospection de modèles

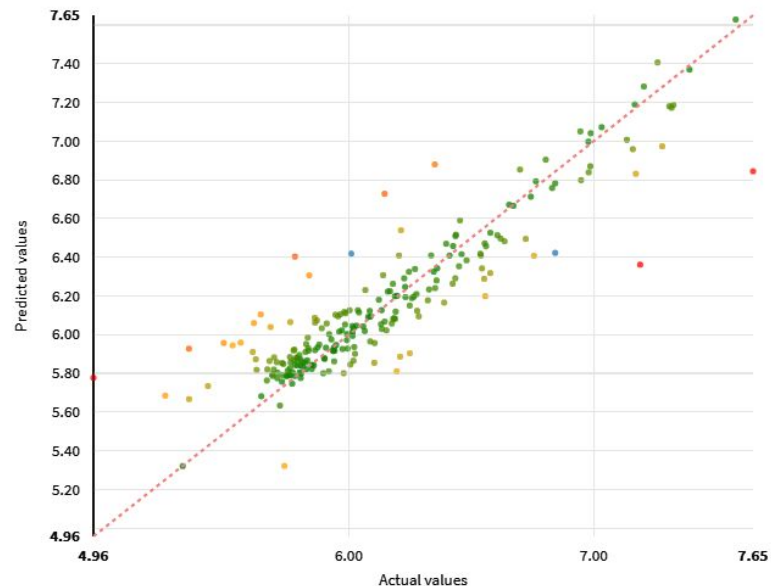
Avec Dataiku (TotalGHGEmission sens GazEnergy)

R2 Score

<input type="checkbox"/>	Random forest (s6)	0.809	☆
<input checked="" type="checkbox"/>	Ridge (L2) regression (s6)	0.841	☆
<input type="checkbox"/>	SVM (s6)	0.831	☆
<input type="checkbox"/>	Single Layer Perceptron (s6)	0.837	☆

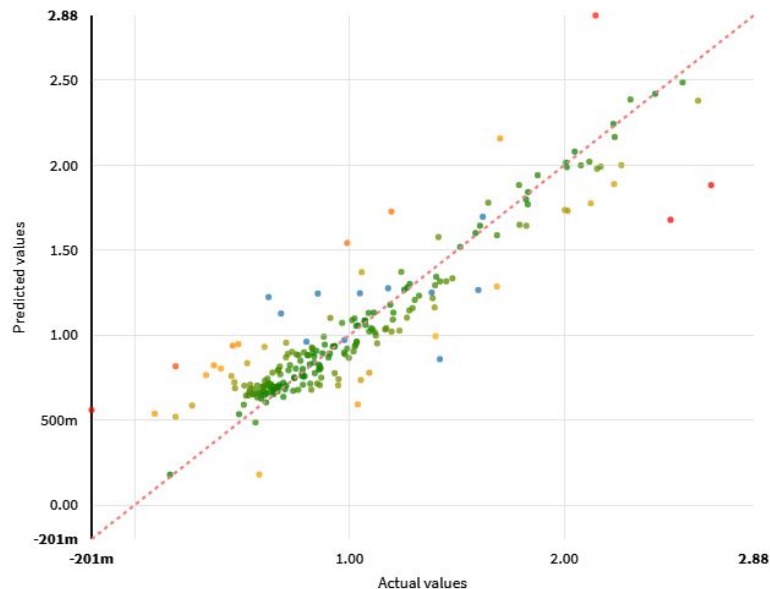
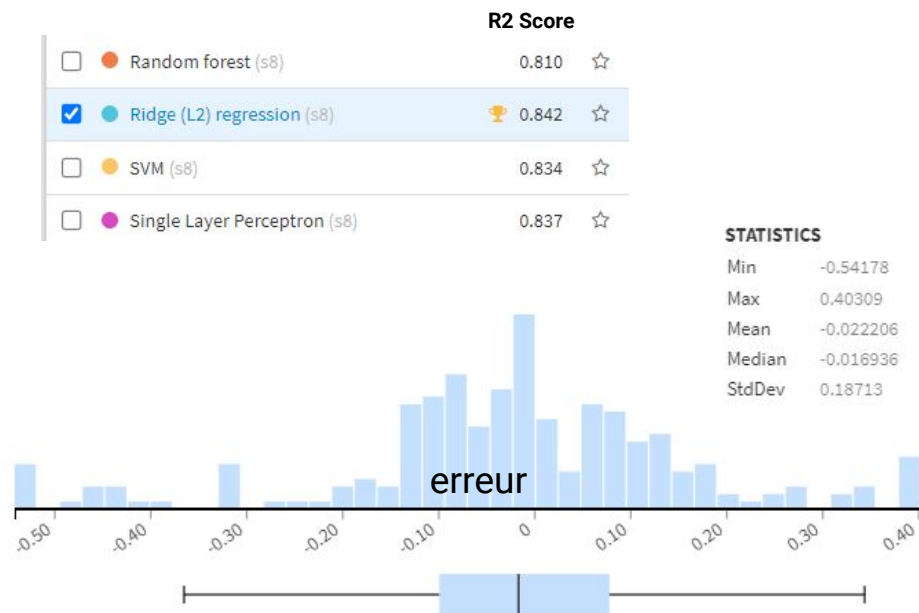
STATISTICS

Min -0.53876
Max 0.39711
Mean -0.021735
Median -0.017703
StdDev 0.18726



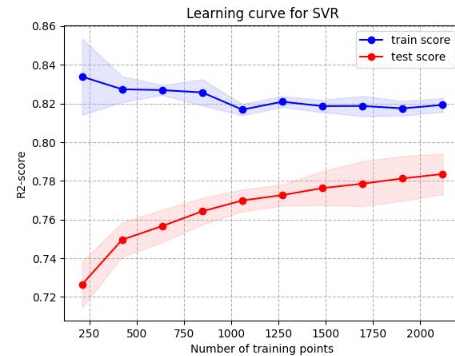
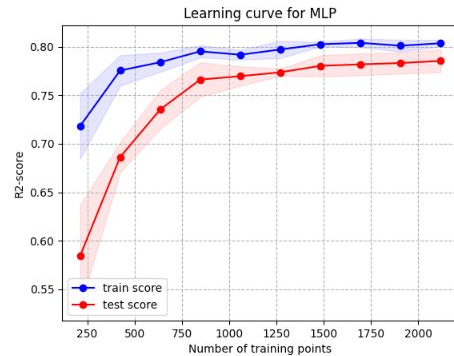
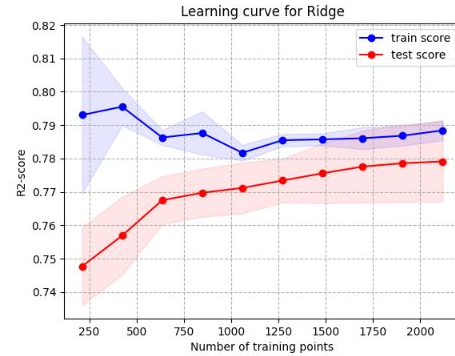
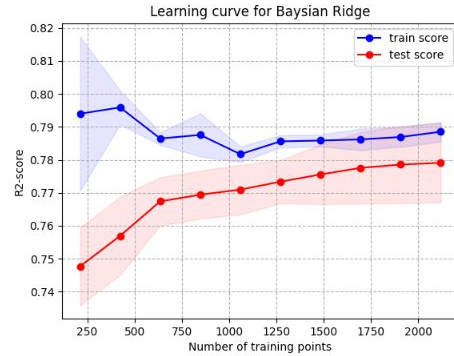
Prospection de modèles

Avec Dataiku (TotalGHGEmission avec GazEnergy)



Résultats

Courbes d'apprentissage



Recommendations

- Limiter la superficie des nouveaux bâtiments
- Encourager l'utilisation des énergies alternatives au gaz
- Surveiller les bâtiments énergivore (campus & hôpitaux)

Conclusions

CITY INFOGRAPHICS

MERCURY

Mercury is the closest planet to the Sun and the smallest one

SATURN

Saturn is composed of hydrogen and helium and is the ringed one

VENUS

Venus has a beautiful name and is the second planet from the Sun



JUPITER

Jupiter is a gas giant and the biggest planet in the Solar System

NEPTUNE

Neptune is the farthest planet from the Sun and the fourth-largest one

CITY INFOGRAPHICS

A

Mars is actually a cold place. It's full of iron oxide dust

C

Saturn is composed of hydrogen and helium and is the ringed one



B

Venus has a beautiful name and is the second planet from the Sun

D

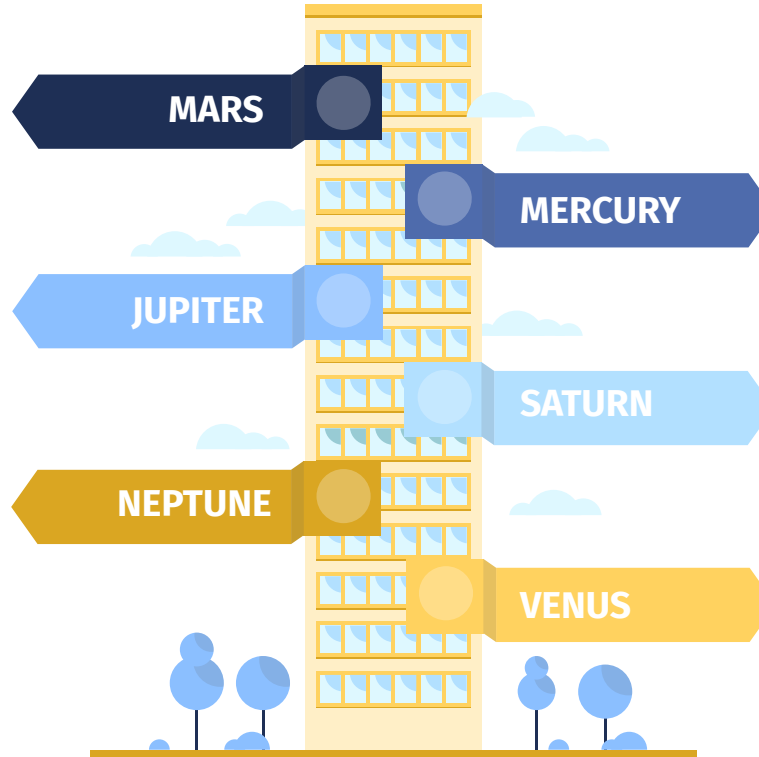
Mercury is the closest planet to the Sun and the smallest one

CITY INFOGRAPHICS

Despite being red, Mars is actually a cold place. It's full of iron oxide dust

Jupiter is a gas giant and the biggest planet in the Solar System

Neptune is the farthest planet from the Sun and the fourth-largest one



Mercury is the closest planet to the Sun and the smallest one

Saturn is composed of hydrogen and helium and is the ringed one

Venus has a beautiful name and is the second planet from the Sun

CITY INFOGRAPHICS

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MARS

Mars is actually a cold place. It's full of iron oxide dust

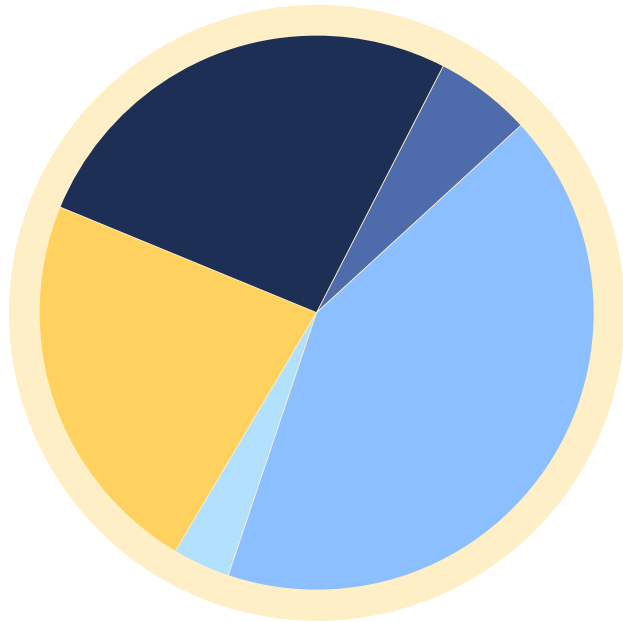
JUPITER

Jupiter is a gas giant and the biggest planet in the Solar System

NEPTUNE

Neptune is the farthest planet from the Sun and the fourth-largest one

CITY INFOGRAPHICS



27%

Mercury is the closest planet to the Sun and the smallest one



10%

Mars is actually a cold place. It's full of iron oxide dust



33%

Saturn is composed of hydrogen and helium and is the ringed one



7%

Jupiter is a gas giant and the biggest planet in the Solar System



23%

Venus has a beautiful name and is the second planet from the Sun

CITY INFOGRAPHICS

24%

Mars is actually a cold place. It's full of iron oxide dust

59%

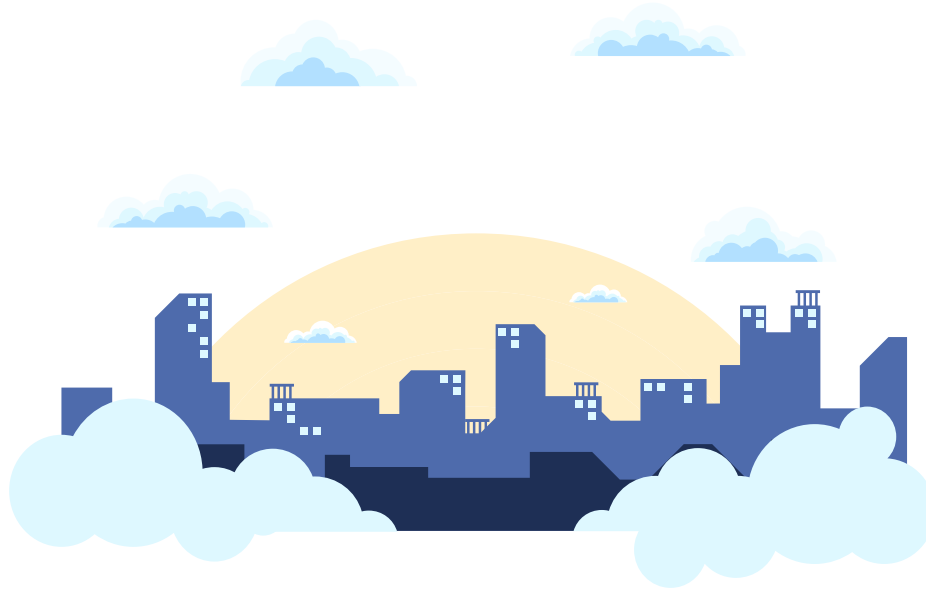
Venus has a beautiful name and is the second planet from the Sun

38%

Saturn is composed of hydrogen and helium and is the ringed one

46%

Mercury is the closest planet to the Sun and the smallest one



CITY INFOGRAPHICS

MERCURY

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SATURN

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VENUS

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MARS

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JUPITER

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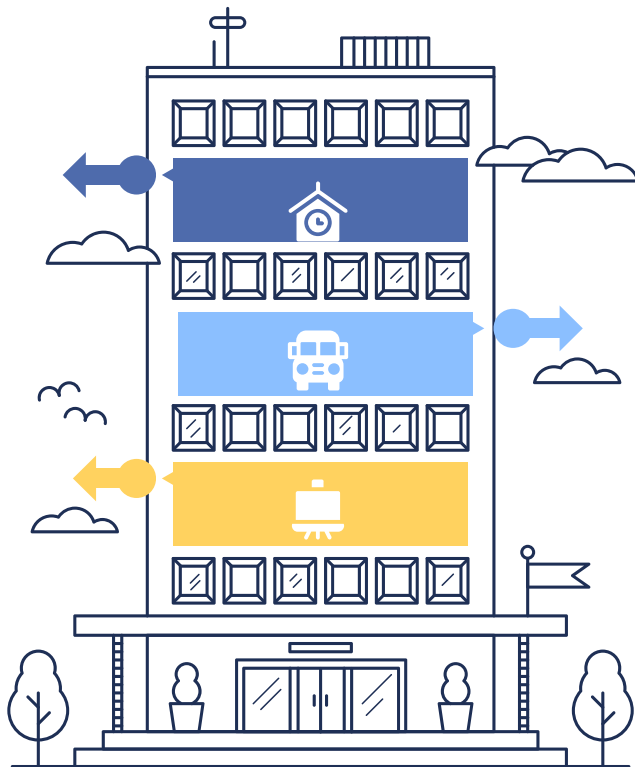
CITY INFOGRAPHICS

75%

Mars is actually a cold place. It's full of iron oxide dust

37%

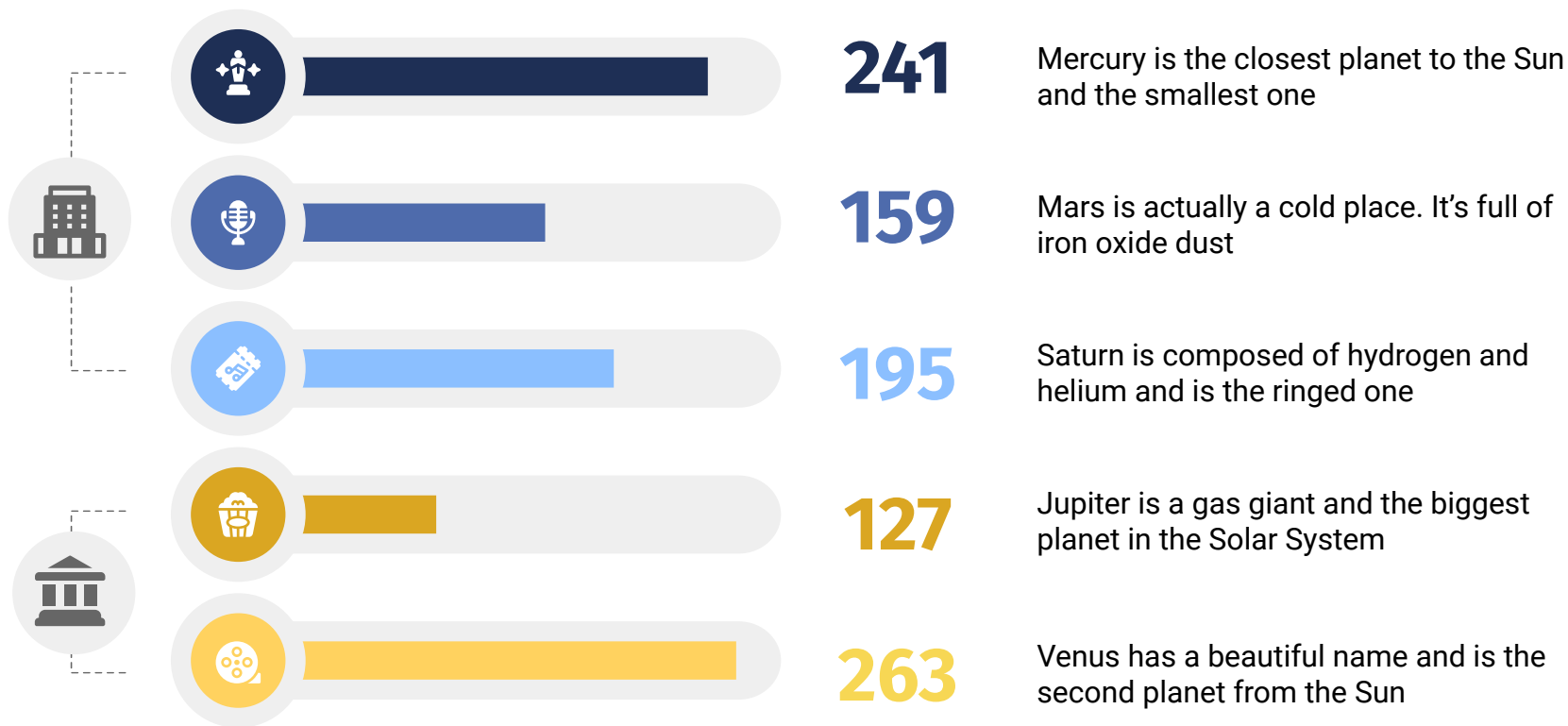
Saturn is composed of hydrogen and helium and is the ringed one



62%

Mercury is the closest planet to the Sun and the smallest one

CITY INFOGRAPHICS



CITY INFOGRAPHICS

A

Mars is actually a cold place. It's full of iron oxide dust

B

Venus has a beautiful name and is the second planet from the Sun



C

Saturn is composed of hydrogen and helium and is the ringed one

D

Mercury is the closest planet to the Sun and the smallest one

CITY INFOGRAPHICS

MERCURY

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MARS

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VENUS

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NEPTUNE

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CITY INFOGRAPHICS

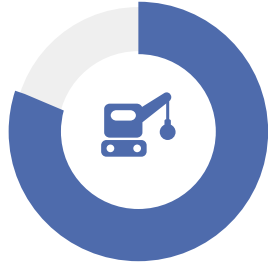
41%



MERCURY

It is the closest planet to the Sun

74%



VENUS

Venus is the second planet from the Sun

61%



JUPITER

Jupiter is the biggest planet of them all

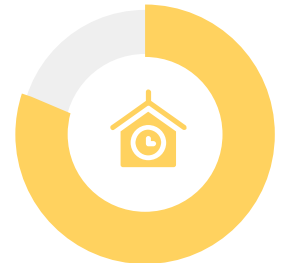
45%



SATURN

Saturn is the ringed one and a gas giant

76%



MARS

Despite being red, Mars is a cold place

CITY INFOGRAPHICS

MERCURY

Mercury is the closest planet to the Sun and the smallest one



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Mars is actually a cold place. It's full of iron oxide dust

SATURN

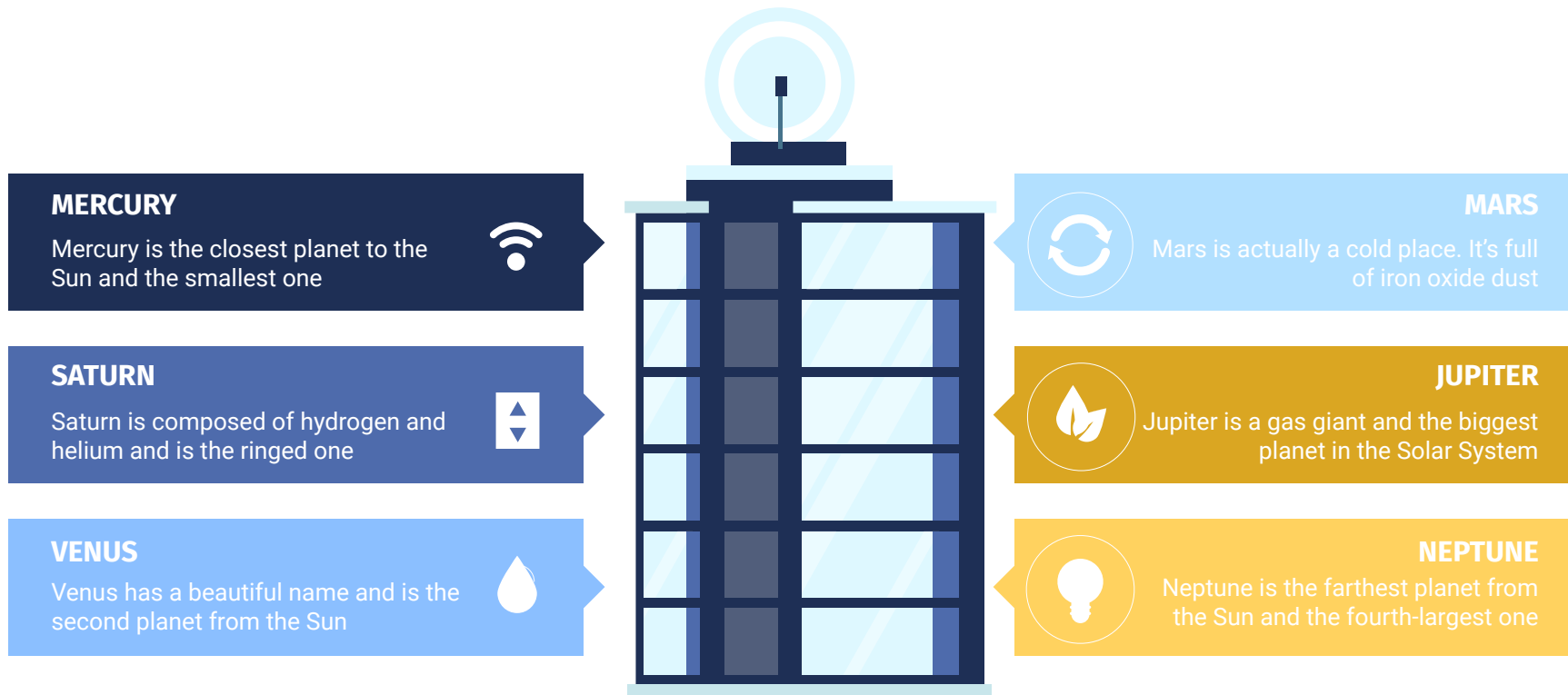
Saturn is composed of hydrogen and helium and is the ringed one



JUPITER

Jupiter is a gas giant and the biggest planet in the Solar System

CITY INFOGRAPHICS



CITY INFOGRAPHICS



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Mars is actually a cold place. It's full of iron oxide dust



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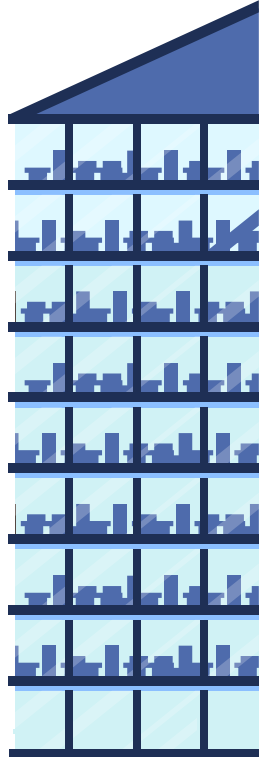
MARS

Mars is actually a cold place. It's full of iron oxide dust



JUPITER

Jupiter is a gas giant and the biggest planet in the Solar System



CITY INFOGRAPHICS

24%

Mars is actually a cold place. It's full of iron oxide dust

17%

Venus has a beautiful name and is the second planet from the Sun

15%

Saturn is composed of hydrogen and helium and is the ringed one

44%

Mercury is the closest planet to the Sun and the smallest one



CITY INFOGRAPHICS

50%

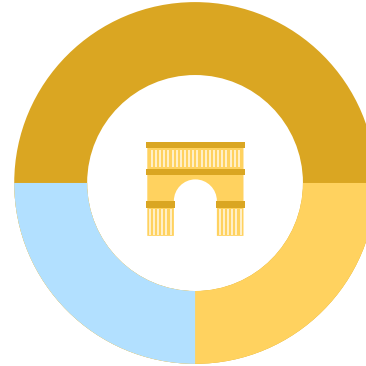
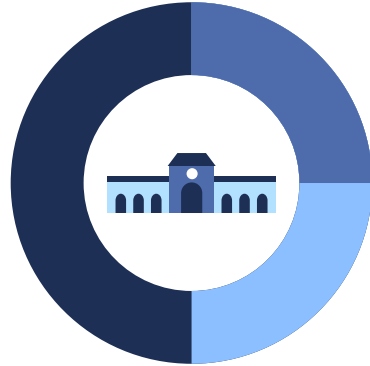
Mercury is the closest planet to the Sun and the smallest one

24%

Saturn is composed of hydrogen and helium and is the ringed one

26%

Venus has a beautiful name and is the second planet from the Sun



50%

Mars is actually a cold place. It's full of iron oxide dust

25%

Jupiter is a gas giant and the biggest planet in the Solar System

25%

Neptune is the farthest planet from the Sun and the fourth-largest one

CITY INFOGRAPHICS

A

Mars is actually a cold place. It's full of iron oxide dust

B

Venus has a beautiful name and is the second planet from the Sun

C

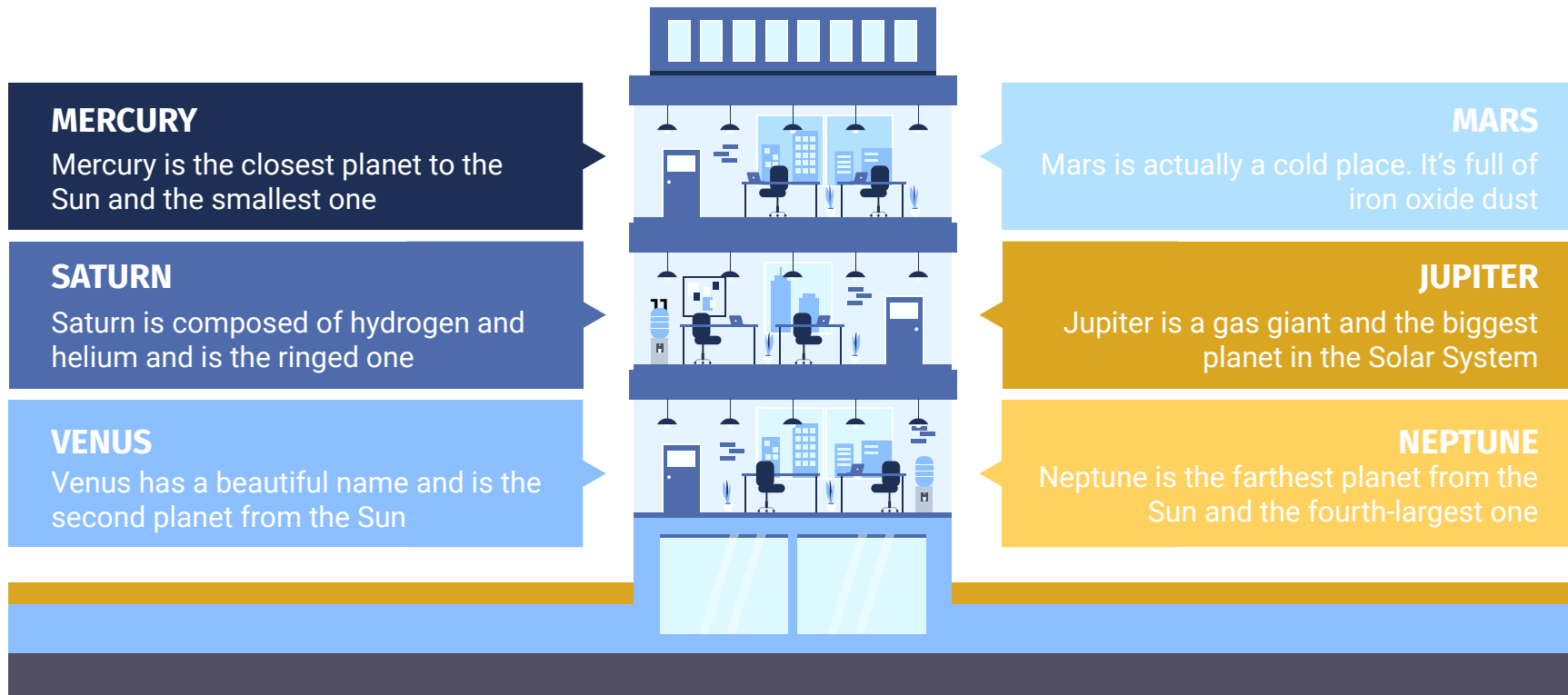
Saturn is composed of hydrogen and helium and is the ringed one

D

Mercury is the closest planet to the Sun and the smallest one



CITY INFOGRAPHICS



CITY INFOGRAPHICS

P

MERCURY

Mercury is the closest planet to the Sun



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Venus is the second planet from the Sun



JUPITER

Jupiter is the biggest planet of them all



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It is a ringed planet and a gas giant



MARS

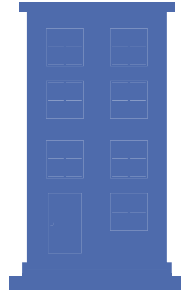
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CITY INFOGRAPHICS



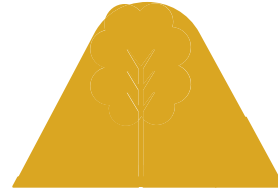
MERCURY

Mercury is the closest planet to the Sun



VENUS

Venus is the second planet from the Sun



JUPITER

Jupiter is the biggest planet in the Solar System



SATURN

Saturn is the ringed planet and a gas giant

CITY INFOGRAPHICS

MERCURY

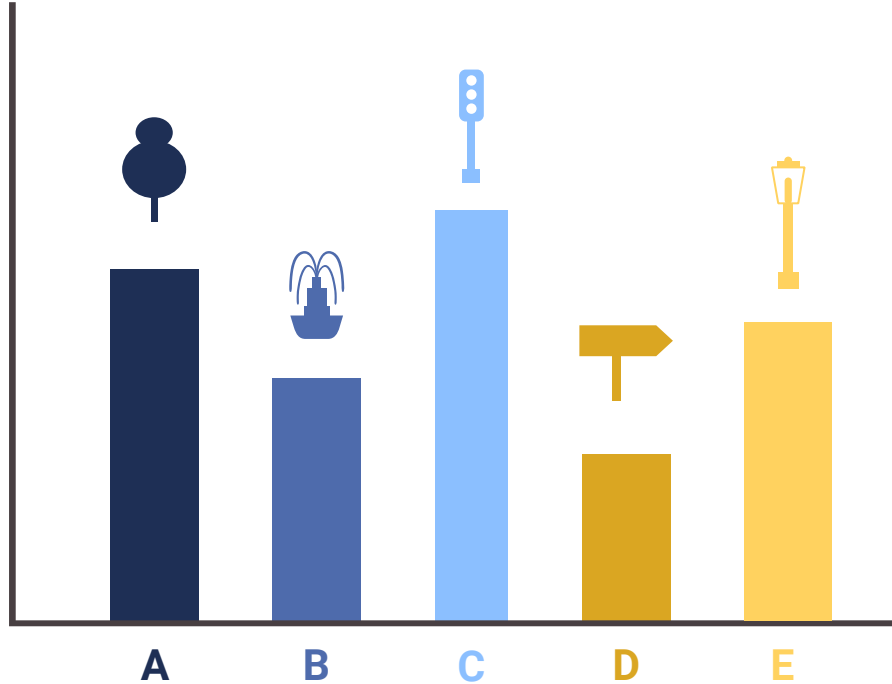
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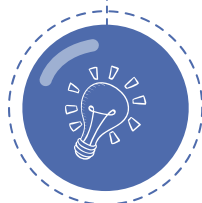
B

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D

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CITY INFOGRAPHICS



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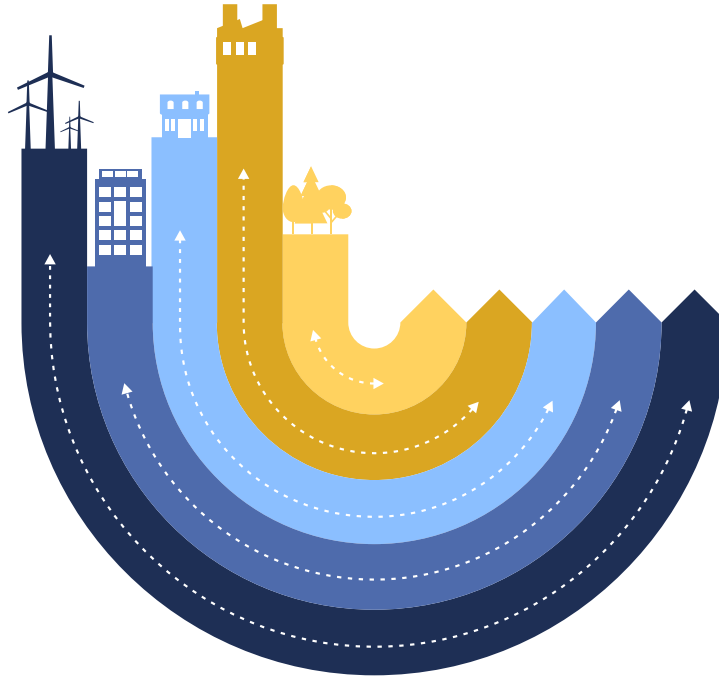
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Jupiter is a gas giant and the biggest planet in the Solar System

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- Then **resize** the element by clicking and dragging one of the square-shaped points of its bounding box (the cursor should look like a double-headed arrow). Remember to hold Shift while dragging to keep the proportions.
- **Group** the elements again by selecting them, right-clicking and choosing “Group”.
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