





# 01 DATA COLLECTION





# **HOW WE COLLECTED DATASET?**

- 1. Download a xslx file from spreadsheet section here <u>Bureau of National Statistics</u>.
  - Основные показатели развития животноводства в Республике Казахстан (январь-август 2023г)

332.5 K6, xls

**2.** Data cleaning: remove sheets without tables, delete first line with name of table and rename the sheet according to table's name.

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Region	Year	Animal	Value
Regutalic of Kamilhatan	2023r.	Large horned cattle	9,486,504
	20221	Carryn Novered Eastle.	9,248,413
	2023r	Cow	4,760,969
	2022r	Cows	4,573,813
	50531	Show	22,472,782
	20221	Shirip	21,669,739
	2023r.	Goath	2,539,144
	2022r	Goats	2,635,603
	20231.	High	808,328
	2022r	15(6)	831,333
	2023r.	Homes	4,170,783
	2022r	Hones	3,874,059



### **OVERVIEW PAGE**

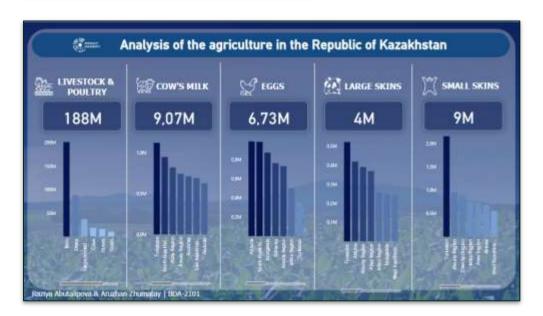






Using the buttons that have an **hover** effect, you can navigate to the desired pages

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# THERE ARE 5 SECTIONS ON THE MAIN PAGE, WHICH WILL BE FURTHER ANALYZED IN THE FRAMEWORK OF 2022 AND 2023:

- Livestock & poultry production
- Cow's milk production
- Eggs production
- Large skins production
- Small skins production

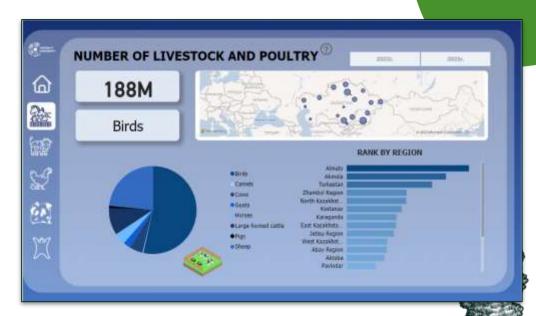
THE CARDS SHOW THE TOTAL VALUES FOR TWO YEARS

STACKED COLUMN CHARTS DISPLAY THE LEADING TYPE OF LIVESTOCK & POULTRY AND REGIONS OF OUR COUNTRY

### LIVESTOCK AND POULTRY

### **VISUALIZATIONS:**

- **Slicer** with style "tile" that filters data of Number of livestock and poultry by years (2022/2023).
- **Card** that display summary statistics and highlight important metric such as number of animals/birds in both years.
- **Bubble map** to visualize geographical data (Regions of Kazakhstan) with values represented by the size of bubbles.
- Clustered bar chart for Regions with livestock and poultry number values involves visualizing data where regions are compared based on the contents of the livestock and poultry.
- **Pie chart**, where slices represent the percentage distribution of number of livestock and poultry across the regions for each year.
- "Help" button and Popup window with additional information about production.



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### NUMBER OF LIVESTOCK AND POULTRY

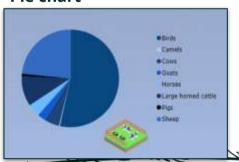
#### Slicer

2022r. 2023r.

#### Cards

188M Birds

#### Pie chart



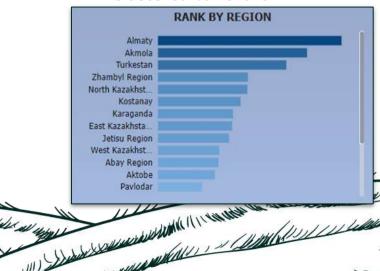
#### **Bubble map**



### Popup window

The production of livestock and poultry involves raising animals for various purposes, including meat, dairy, eggs, and other byproducts. The data is calculated per head of cattle.

#### **Clustered bar chart**

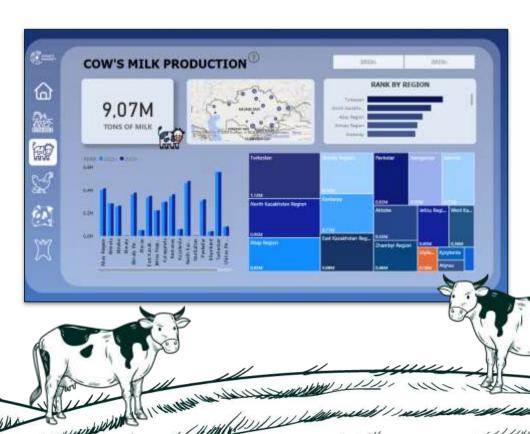




## **MILK PRODUCTION**

### **VISUALIZATIONS:**

- **Slicer** with style "tile" that filters data of Cow's milk production by years (2022/2023).
- **Card** that display summary statistics and highlight important metric such as tons of milk in both years.
- Bubble map to visualize geographical data (Regions of Kazakhstan) with values represented by the size of bubbles.
- Clustered bar chart for Regions with milk number values involves visualizing data where regions are compared based on the number of milk produced.
- Clustered column chart shows in what ratio milk production has changed in different regions in two years.
- Treemap displays the relative proportions and relationships between regions and the number of milk production.
- "Help" button and Popup window with additional information about production.



# COW'S MILK PRODUCTION®

#### Slicer



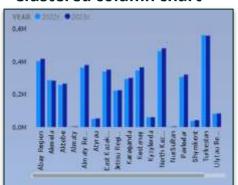
#### Cards



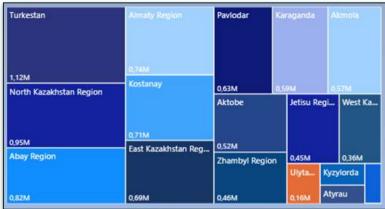
**Clustered bar chart** 

## RANK BY REGION **Flority Tacaking** Almaty Report

#### **Clustered column chart**



### Treemap



#### **Bubble map**



#### **Popup window**

Cow's milk production is a significant component of the dairy industry and plays a crucial role in providing milk and dairy products. Data is calculated per ton.





# **EGG PRODUCTION**



### **VISUALIZATIONS:**

- **Slicer** with style "tile" that filters data of Egg Production by years (2022/2023).
- **Card** that display summary statistics and highlight important metric such as number of eggs in both years.
- **Bubble map** to visualize geographical data (Regions of Kazakhstan) with values represented by the size of bubbles.
- Clustered bar chart for Regions with egg number values involves visualizing data where regions are compared based on the number of eggs produced.
- 100% Stacked bar chart the height of each bar represents 100%, and the segments within each bar represent the percentage distribution of egg production across the regions for each year.
- "Help" button and Popup window with additional information about production.





# EGG PRODUCTION ②

#### Slicer and card

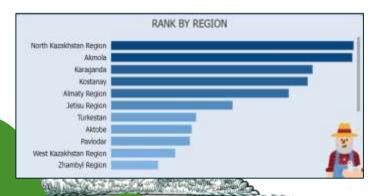
3.40M

EGG5

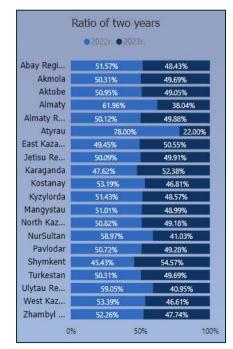
### Map



#### **Clustered bar chart**



#### 100% Stacked bar chart



#### Pop up window

Egg production is an important part of poultry farming and provides a major source of protein for many people around the world. Data calculated by piece.



Navigation buttons with hovering effect

### **VISUALIZATIONS:**

- **Slicer** with style "tile" that filters data of Large Skins Production by years (2022/2023).
- Card that display summary statistics and highlight important metric such as number of Large Skins in both years.
- **Bubble map** to visualize geographical data (Regions of Kazakhstan) with values represented by the size of bubbles.
- **Clustered bar chart** for Regions with Skins number values involves visualizing data where regions are compared based on the number of Skins produced.
- **Stacked area chart** display the production of skins in different regions for two years, with each region represented as a colored area.
- **Treemap** to represent regions and their skin production can be a visually appealing way to display hierarchical data.
- "Help" button and Popup window with additional information about production.



# **LARGE SKINS PRODUCTION**





# PRODUCTION OF LARGE SKINS (2)

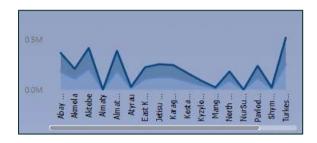
#### Slicer and card



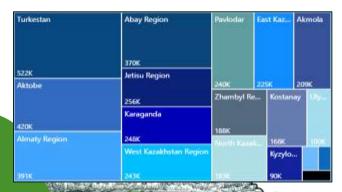
#### **Clustered bar chart**



#### Stacked area chart



#### **Treemap**



#### **Bubble map**



#### **Popup window**

Large Animal Skins: These skins come from larger animals such as cattle, buffalo, horses, and elephants. They are generally much larger in size compared to small animal skins.





# **SMALL SKINS PRODUCTION**



### **VISUALIZATIONS:**

- Slicer with style "tile" that filters data of Small Skins Production by years (2022/2023).
- Card that display summary statistics and highlight important metric such as number of Small Skins in both years.
- Bubble map to visualize geographical data (Regions of Kazakhstan) with values represented by the size of bubbles.
- Clustered bar chart for Regions with skins number values involves visualizing data where regions are compared based on the number of skins produced.
- **Table** to display year and number of small skins in a tabular format with additional icons formatting.
- Stacked bar chart display each region as a separate bar, and within each bar, the two years will be stacked to show the change in the number of small skins over time
- "Help" button and Popup window with additional information about production.



### **PRODUCTION OF SMALL SKINS**





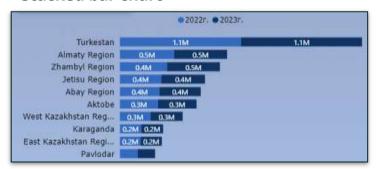
#### Slicer and card



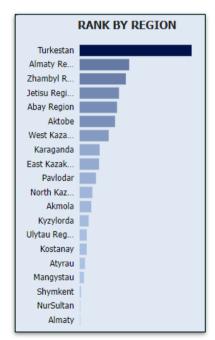
#### **Table**

Year	Value
2023г. 💠	8988464
2022г. 🖖	8813814
Total	17802278

#### Stacked bar chart



#### **Clustered bar chart**



#### Popup window

Small Animal Skins: These skins are obtained from smaller animals like rabbits, goats, sheep, and reptiles. They are typically smaller in size compared to large animal skins.

#### **Bubble map**





# **AGRICULTURE STATISTICS FOR 2022**

Top regions of the Republic of Kazakhstan



14M

NUMBER OF LIVESTOCK AND POULTRY

Almaty

561K

**COW'S MILK PRODUCTION** 

Turkestan

499K

**EGG PRODUCTION** 

North Kazakhstan Region

1M

PRODUCTION OF SMALL SKINS

Turkestan



PRODUCTION OF LARGE SKINS

Turkestan



# **AGRICULTURE STATISTICS FOR 2023**

Top regions of the Republic of Kazakhstan



13M

NUMBER OF LIVESTOCK AND POULTRY

Almaty

558K

**COW'S MILK PRODUCTION** 

Turkestan



**EGG PRODUCTION** 

Akmola

1M

PRODUCTION OF SMALL SKINS

Turkestan

267K

PRODUCTION OF LARGE SKINS

Turkestan



