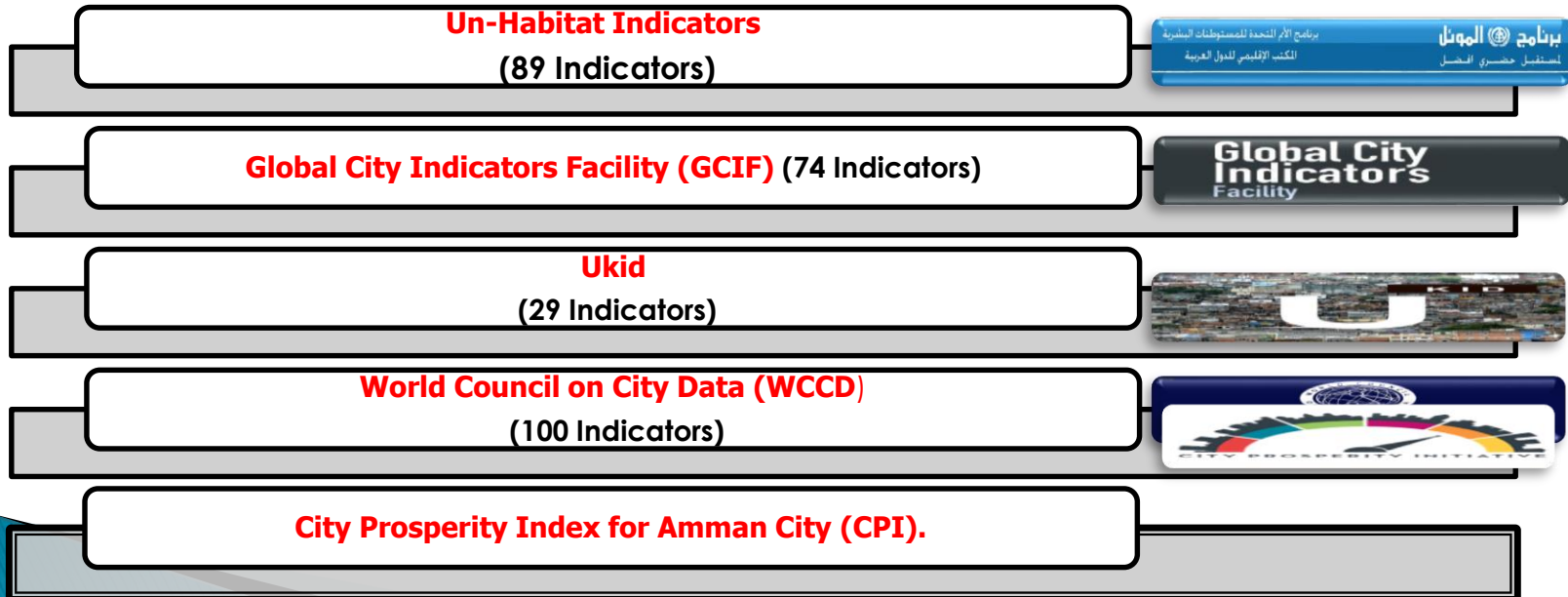# Amman Urban Observatory (AUO) :

About AUO:

Amman Urban Observatory (AUO) is a department at GAM. AUO was reactivated and start producing urban indicators in 2008. AUO has a team of statisticians and researchers. The researchers collecting row data from AUO's Stakeholders.

AUO producing Amman Urban indicators (AUI) according to the following agendas

Un-Habitat Indicators
(89 Indicators)

Global City Indicators Facility (GCIF) **(74 Indicators)**

Ukid
(29 Indicators)

World Council on City Data (WCCD)
(100 Indicators)

City Prosperity Index for Amman City (CPI).

Development of work stages in AUO :

Producing Indicators:

1- Manually : Used manually calculations in indicators computations.

2- 'Access' database: Building a database using 'Access software'.

3- Visual Basic (VB) App. : AUO team built a VB application with access database.

4- Oracle 9 Database: AUO team built a Database using Oracle 9.

5- Oracle Apex (OAP): AUO team built a Database and App. using Oracle Apex.

AUO Methods in collecting Raw Data :

AUO is collecting Raw Data from partners (Government sector, Private sector, NGOs) through stakeholders' network :

- Field Visiting to AUO's partners.

- partners' portals websites &reports

- E-mail.

- Phone calling.

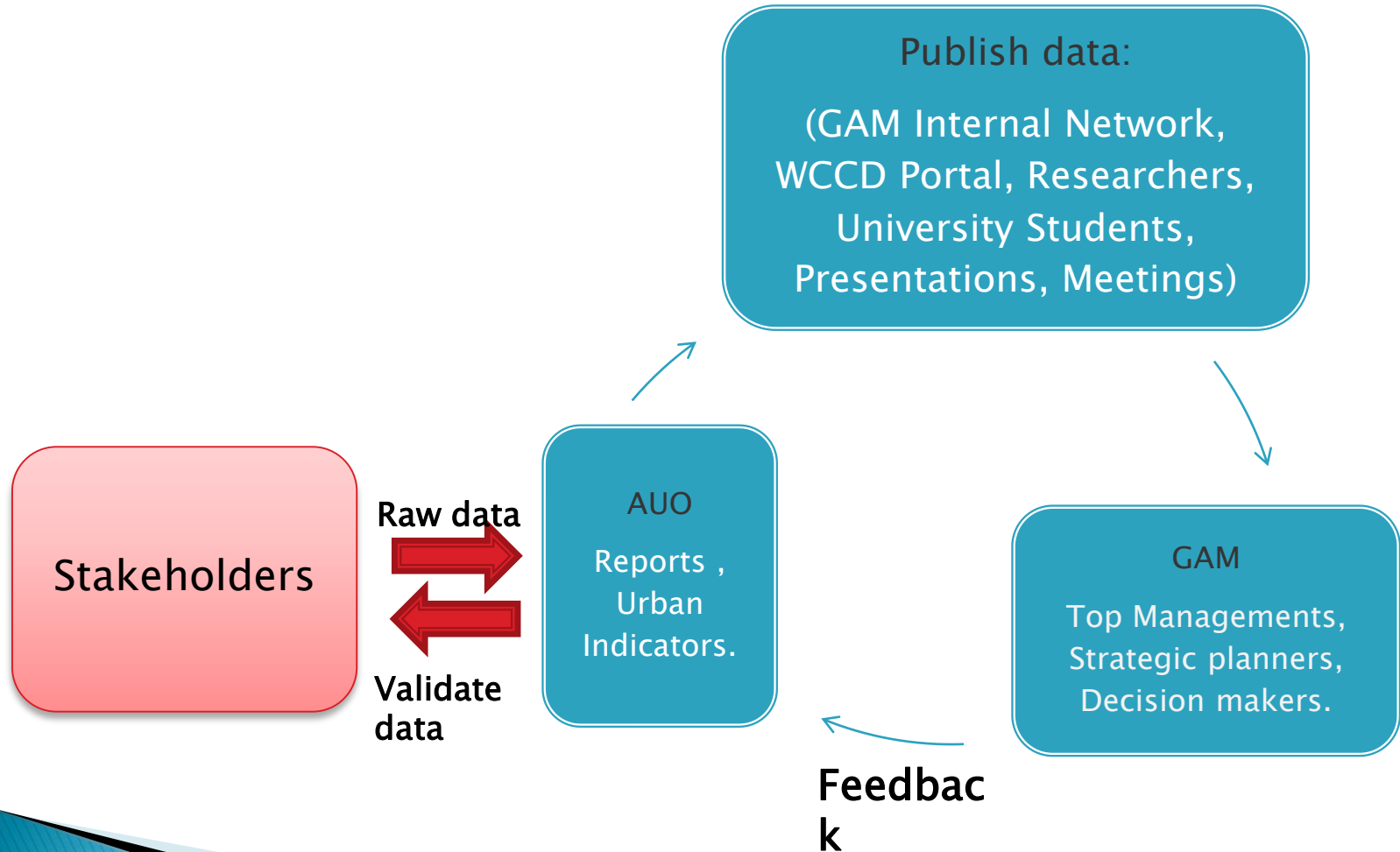# AUO's Stakeholders :

AUO Stakeholders

| Ministries | Government departments | Private sectors | Partners in sustainable and developing Amman city |

Data Cycle in AUO:

Publish data:

(GAM Internal Network, WCCD Portal, Researchers, University Students, Presentations, Meetings)

Stakeholders

Raw data

Validate data

AUO

Reports , Urban Indicators.

GAM

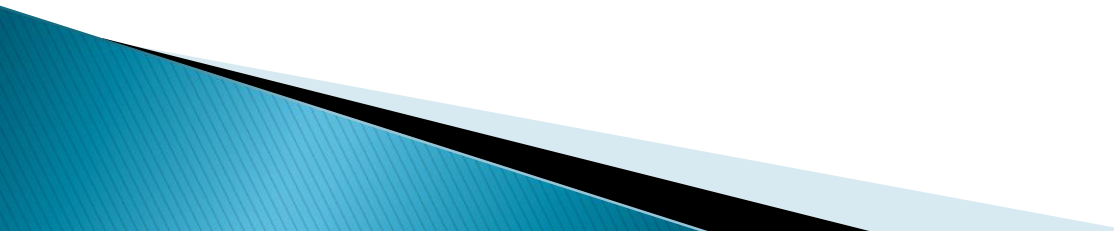Top Managements, Strategic planners, Decision makers.
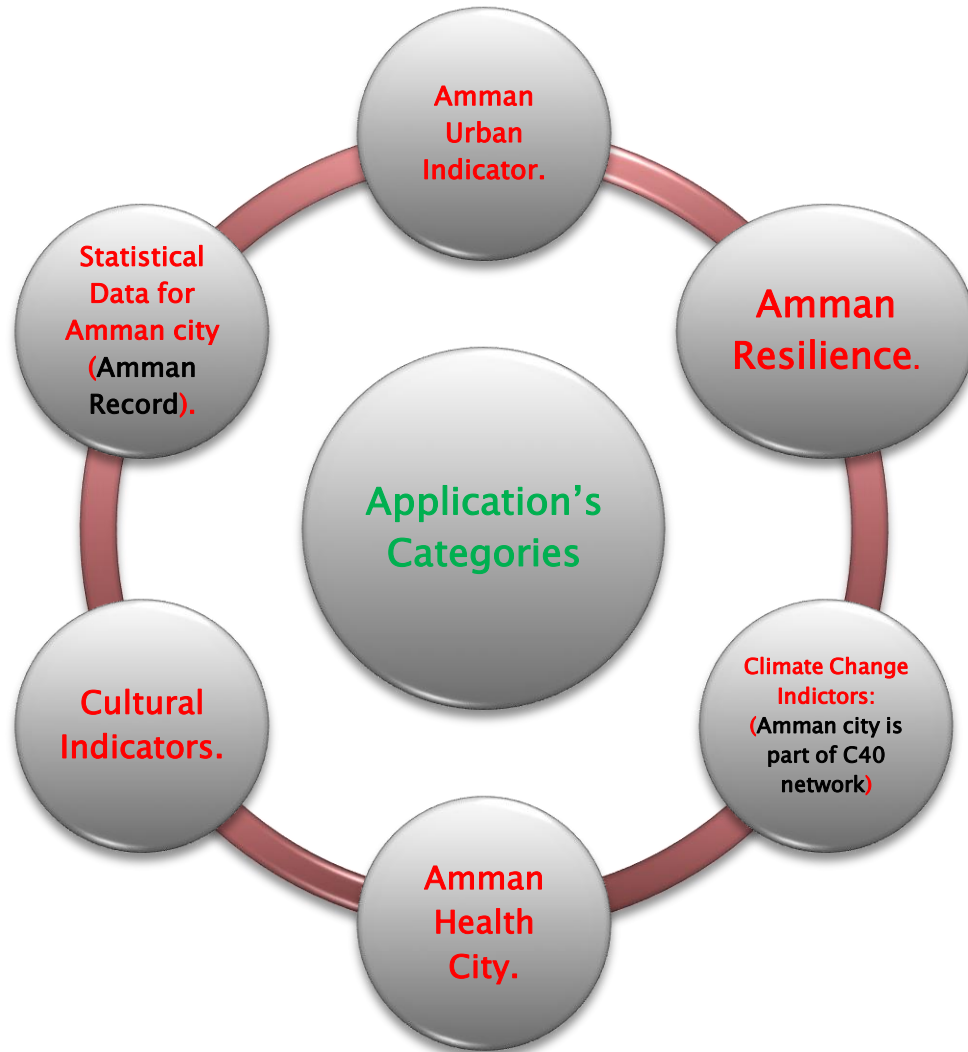
Feedback

Data management in AUO:

When designing the Database; AUO considered the below flow chart.

Data management at AUO level:

1. Raw Data Collection : Stakeholders, Partners.
2. Raw Data Classification & Analysis.
3. Producing Urban Indicators at Amman City Level.
4. Publishing Urban Indicators.
5. Benchmarking.

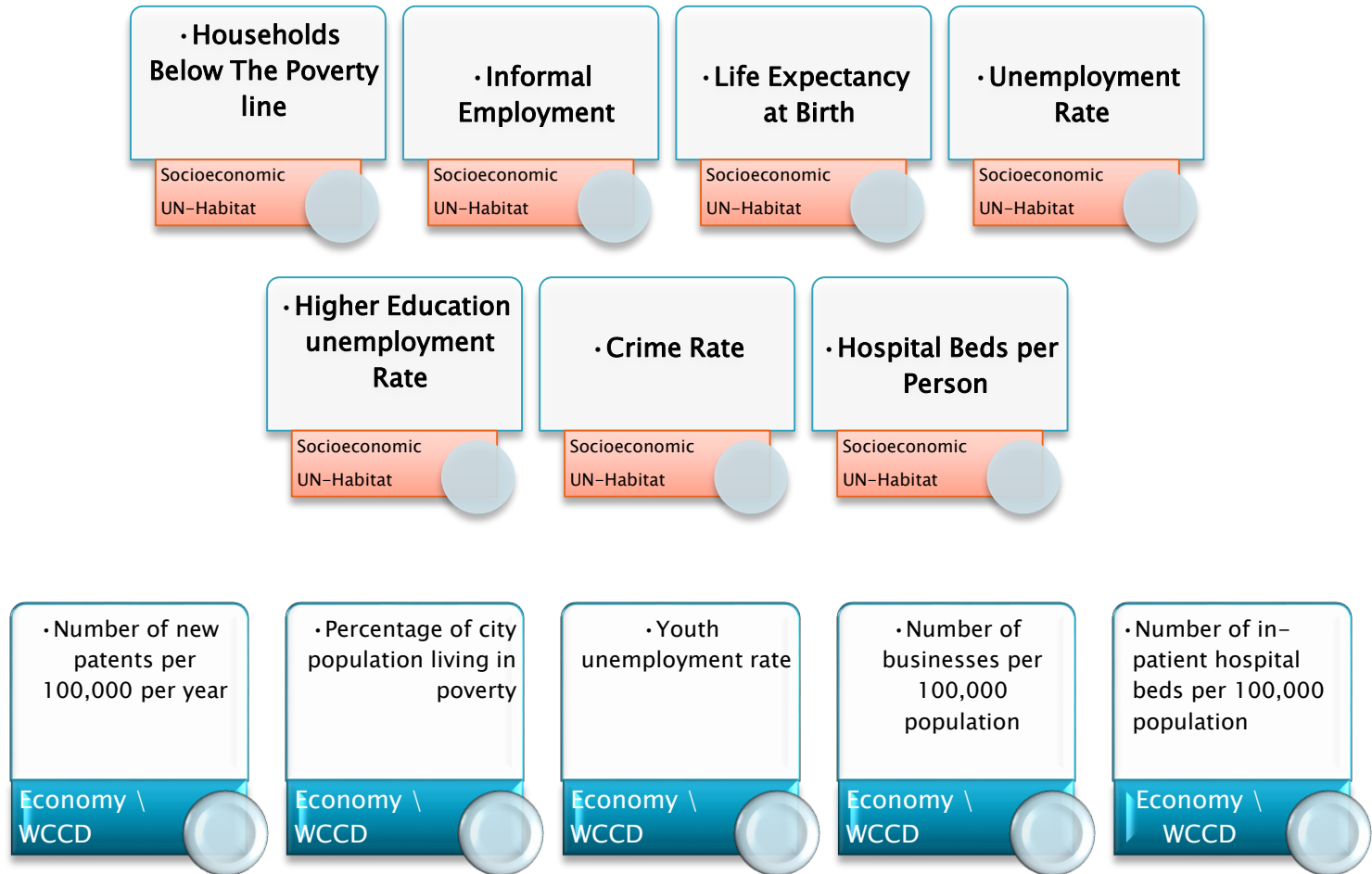# Amman Urban Observatory Applications' Categories:

APEX Application for Producing Indicators in AUO:
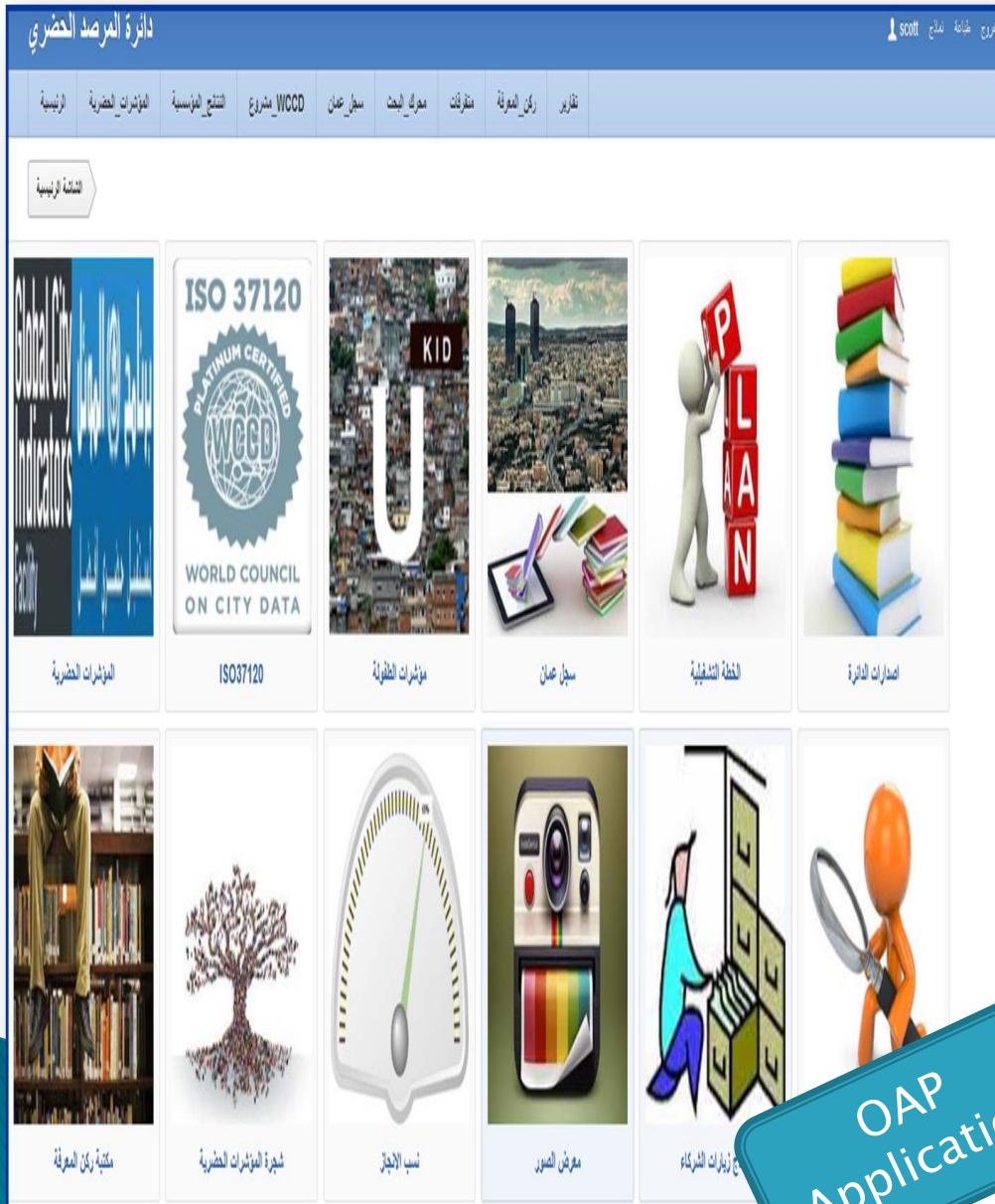
Themes

1) Demographic.
2) Health.
3) Education.
4) Safety.
5) Technology and innovation.
6) Transportation.
7) Infrastructure.
8) Finance.
9) Energy.
10) Waste water.
11) Solid waste.
12) Water.
13) Environment.
14) Social and economic.
15) Culture.

Economic \ Socioeconomic Indicators :

·Households Below The Poverty line	·Informal Employment	·Life Expectancy at Birth	·Unemployment Rate
Socioeconomic UN–Habitat	Socioeconomic UN–Habitat	Socioeconomic UN–Habitat	Socioeconomic UN–Habitat

·Higher Education unemployment Rate	·Crime Rate	·Hospital Beds per Person
Socioeconomic UN–Habitat	Socioeconomic UN–Habitat	Socioeconomic UN–Habitat

·Number of new patents per 100,000 per year	·Percentage of city population living in poverty	·Youth unemployment rate	·Number of businesses per 100,000 population	·Number of in-patient hospital beds per 100,000 population
Economy \ WCCD	Economy \ WCCD	Economy \ WCCD	Economy \ WCCD	Economy \ WCCD

Amman record:

A category that records all Amman's statistical data (demographical , social , economical, educational, health and safety, …) at Amman city level.

AUO – OAP App.:

With OAP, there is a simple way for end user (Planners, Decision makers, researchers and citizens) to design their own reports.

قائمة مؤشرات ISO37120

	Code No ▼	Ind Cat	الموضوع بالانجليزية	المؤشر بالانجليزية	الموضوع بالعربية	المؤشر بالعربية
✎	WCCD_EC5.1	Core	Economy	City unemployment rate	الاقتصاد	معدل البطالة في المدينة
✎	WCCD_EC5.2	Core	Economy	Assessed value of commercial and industrial properties as apercentage of total asessed value of all properties	الاقتصاد	القيمة المقدرة للعقارات التجارية والصناعية كنسبة مئوية من إجمالي القيمة المقدرة لجميع العقارات
✎	WCCD_EC5.3	Core	Economy	Percentage of city population living in poverty	الاقتصاد	نسبة المواطنين الذين يعيشون في فقر
✎	WCCD_EC5.4	Supporting	Economy	Perceentage of persons in fulltime employment	الاقتصاد	نسبة الاشخاص العاملين بدوام كامل
✎	WCCD_EC5.5	Supporting	Economy	Youth unemployment rate	الاقتصاد	معدل البطالة بين الشباب
✎	WCCD_EC5.6	Supporting	Economy	Number of businesses per 100,000 population	الاقتصاد	عدد الشركات نسبة الى كل 100،000 من السكان
✎	WCCD_EC5.7	Supporting	Economy	Number of new patents per 100,000 per year	الاقتصاد	عدد براءات الاختراع لكل 100000 نسمة في السنة
✎	WCCD_ED6.1	Core	Education	Percentage of female school-aged population enrolled in school	التعليم	نسبة السكان الاناث المسجلين في المدارس
✎	WCCD_ED6.2	Core	Education	Percentage of students completing Primary education	التعليم	نسبة الطلاب الذين أكملوا المرحلة الاساسية
✎	WCCD_ED6.3	Core	Education	Percentage of students completing secondary education	التعليم	نسبة الطلاب الذين أكملوا المرحلة الثانوية
✎	WCCD_ED6.4	Core	Education	Primary education student/ teacher ratio	التعليم	عدد الطلبة في المدارس الابتدائية نسبة الى عدد المعلمين
✎	WCCD_ED6.5	Supporting	Education	Percentage of male school-aged population enrolled in school	التعليم	نسبة السكان الذكور المسجلين في المدارس
✎	WCCD_ED6.6	Supporting	Education	Percentage of school-aged population enrolled in school	التعليم	النسبة المئوية للسكان في سن المدرسة المسجلين في المدارس
✎	WCCD_ED6.7	Supporting	Education	Number of higher education degrees per 100,000 population	التعليم	عدد الاشخاص الحاصلين على شهادات عليا لكل 100000 نسمة
✎	WCCD_EN7.1	Core	Energy	Total residential electrical energy use per capita (kwh/year)	الطاقة	مجمل نصيب السكن من الطاقة الكهربائية

row(s) 1 - 15 of 100 ⌄ Next ▶

AUO – Representing Data in Terms of GIS:
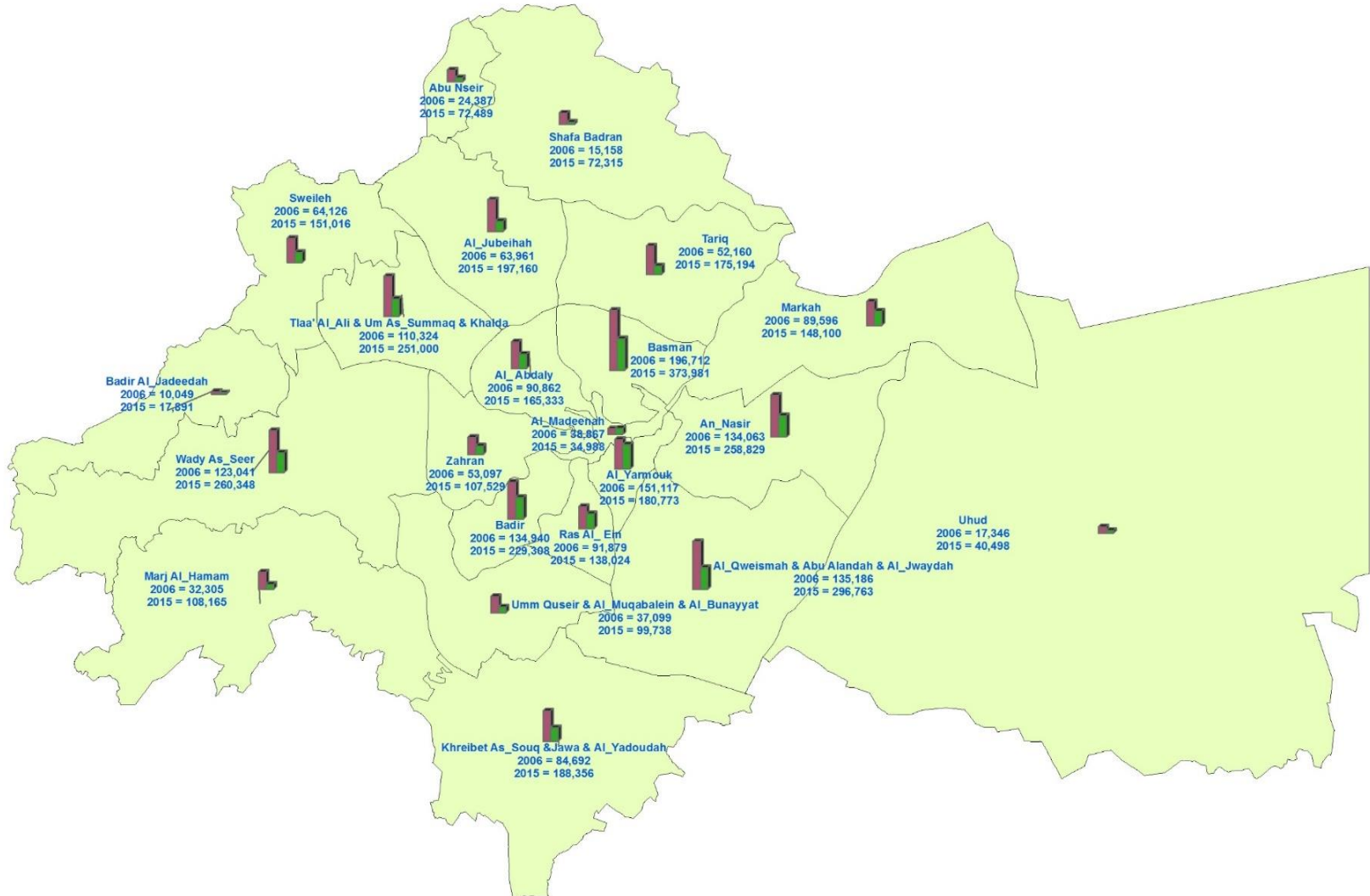
GAM in figures:

GAM Land use April 2015

|	Area	%
Residential	221.6	27.6
Commercial	17	2.1
Industrial	27.1	3.4
Offices	1.3	0.1
Gardens	7.9	1
Public buildings and schools	5.4	0.6
Mixed use	0.8	0.1
Rural	2.3	0.3
Agricultural	4.7	0.6
Cemeteries	0.4	0.05
Special use	10.9	1.3
Green areas	1.2	0.1
Other	7.4	0.9
Streets inside zoned areas	10.5	13
Quaries	10.1	1.2
Outside zoned areas	378.4	47
Total Area	802.5	100
(by calculation Zoned area	424.1	

Commercial Zoning
Residential Zoning
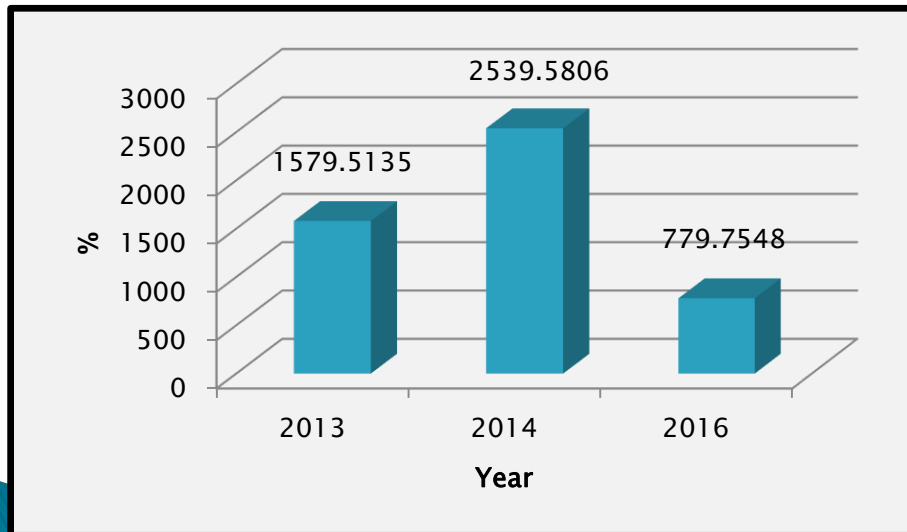Industrial Zoning
District Boundary
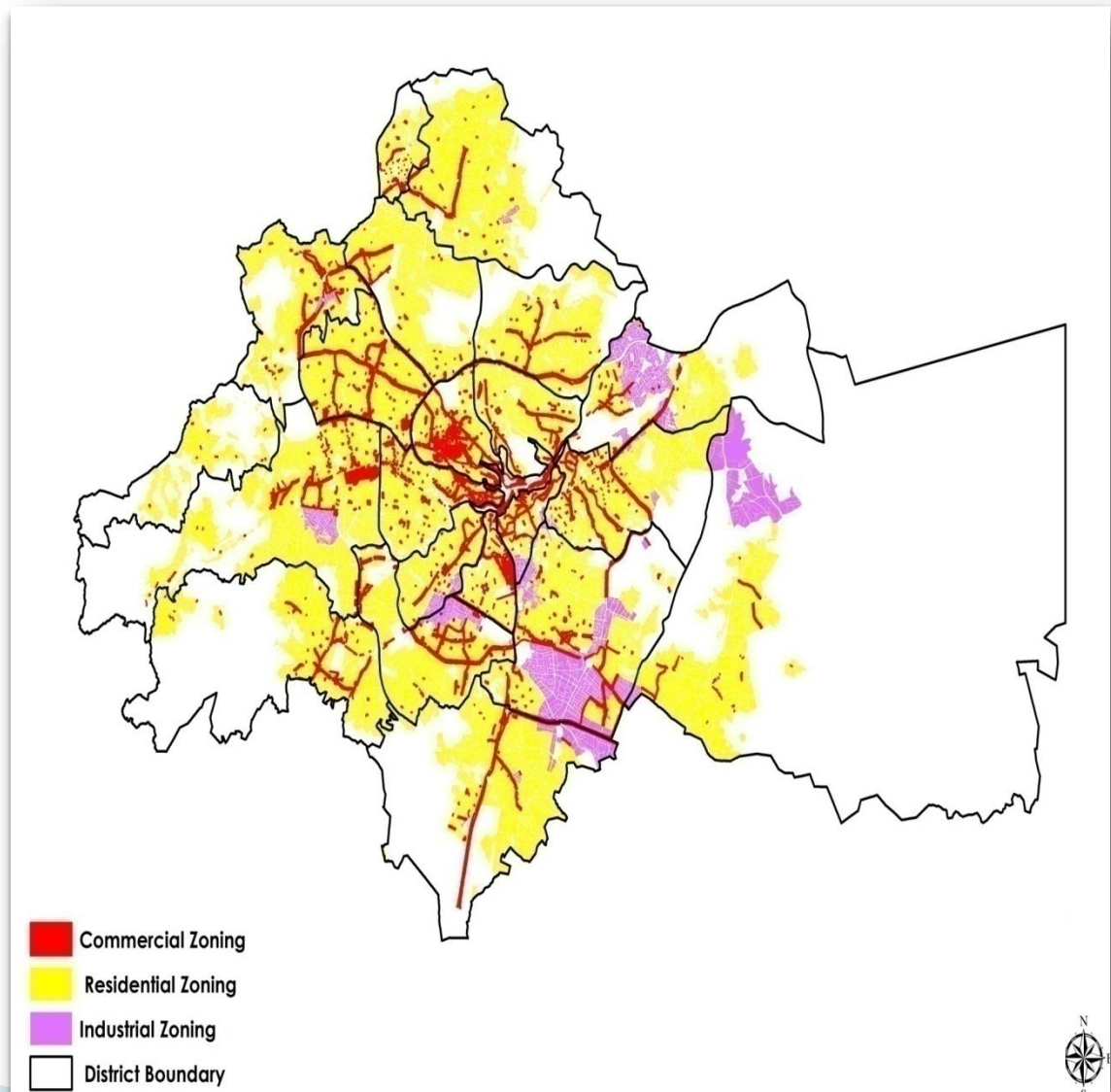
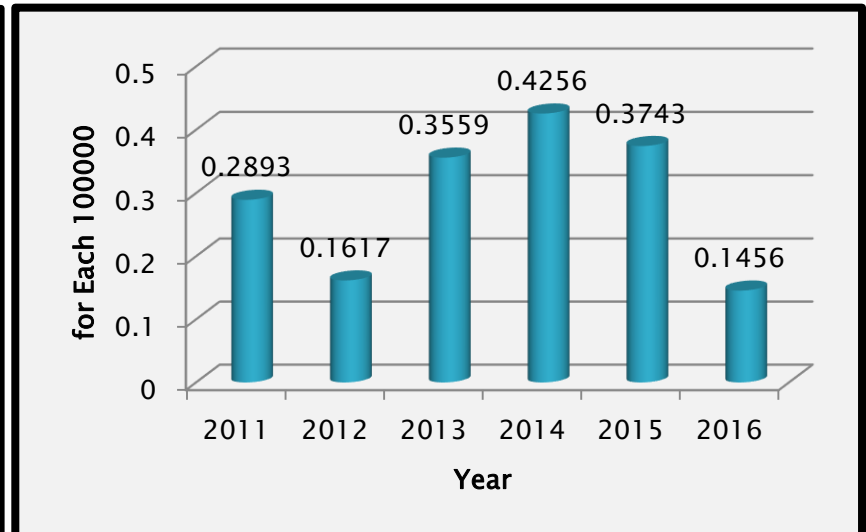# Economic Indicators Produced by AUO:
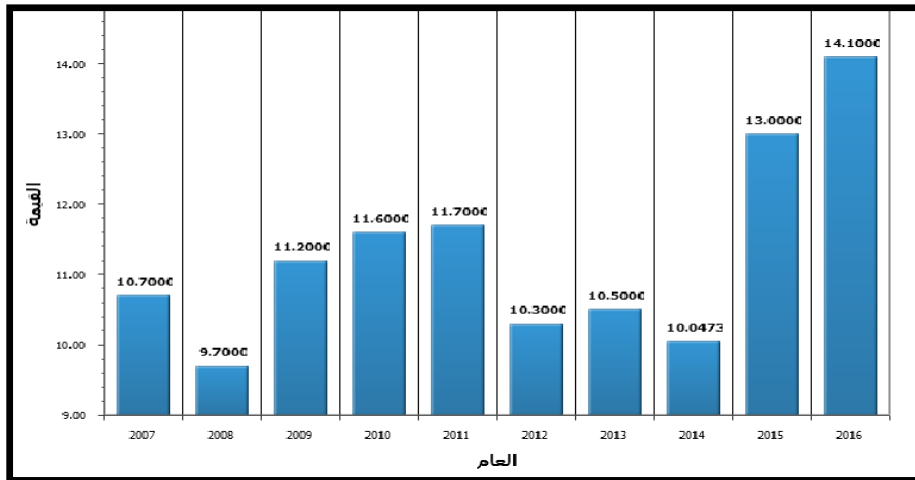
Unemployment (%)
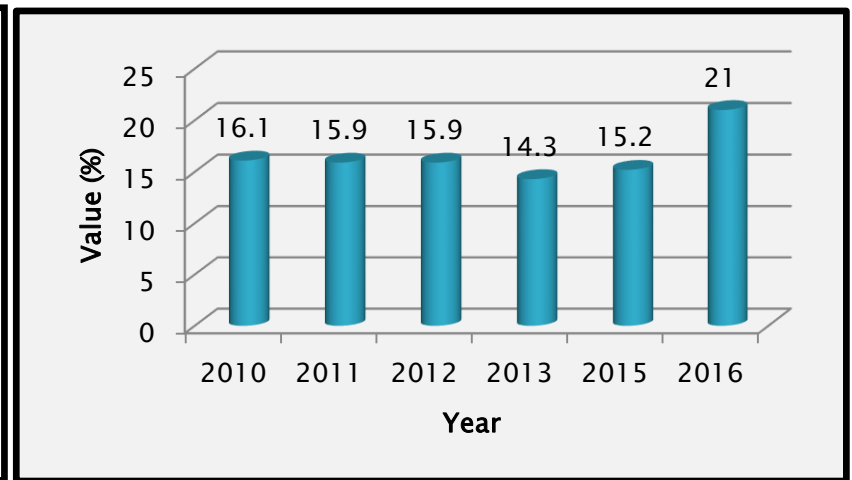
Higher Education unemployment Rate (%)
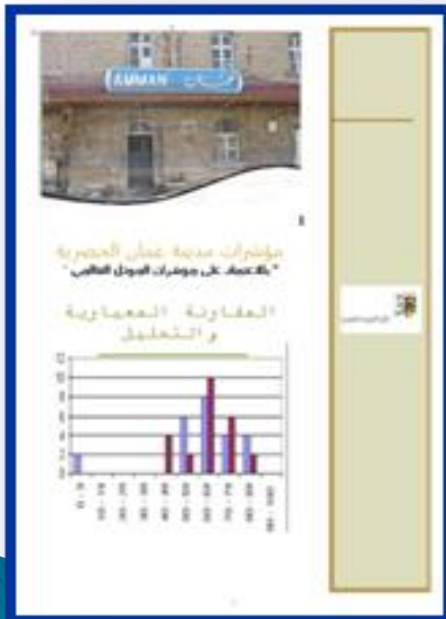

Number of businesses per 100,000 population

Number of new patents per 100,000 per year

Deploying data and indicators:

AUO deploying Data to:
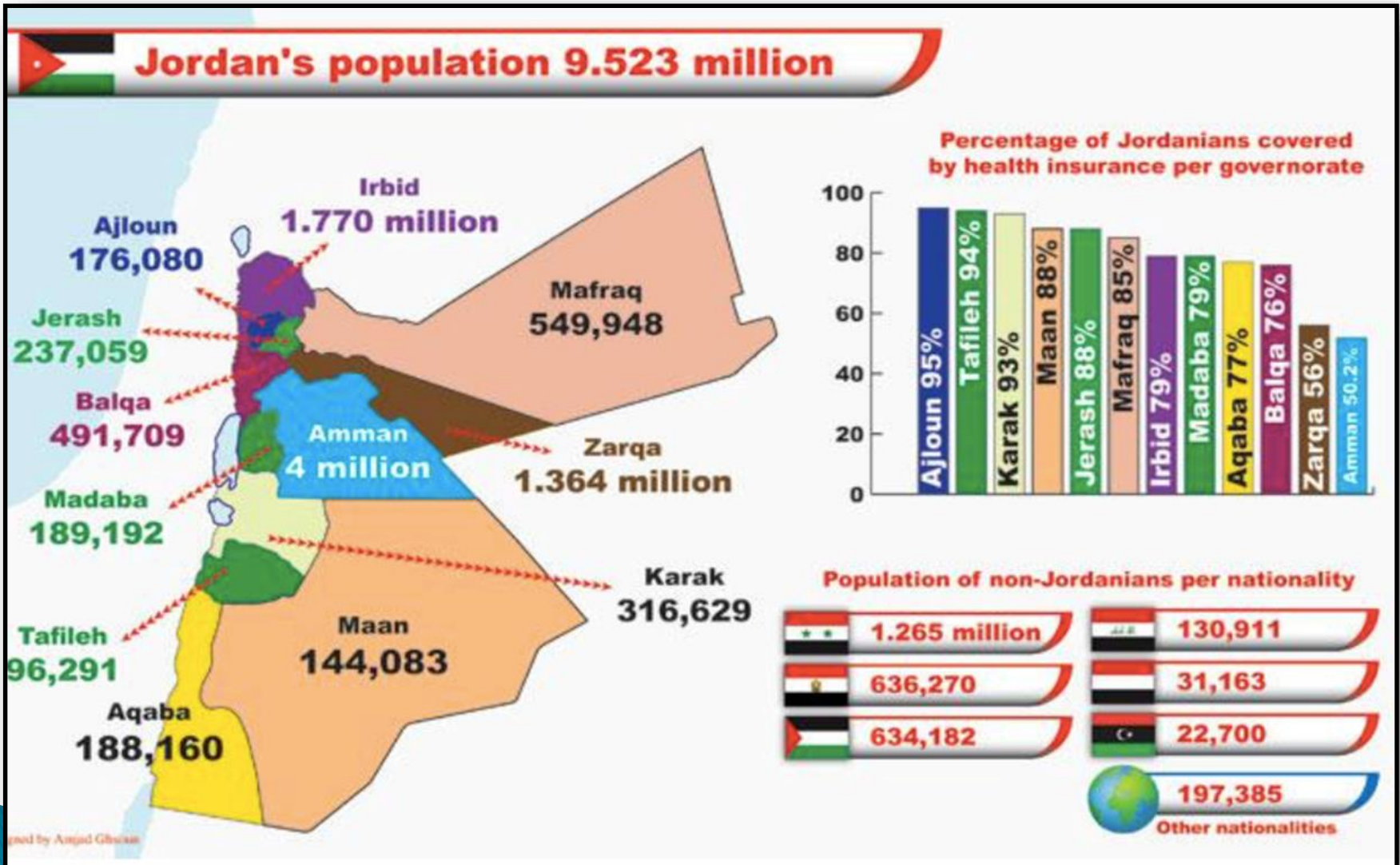1- International Portals like (World council on city data – WCCD portal https://polar-fortress-2667.herokuapp.com/).
2- GAM Intranet.

3- Issuing Annually Reports. Stakeholders and partners and researchers have access to the reports.

Refugees in Jordan:

Jordan's population 9.523 million

Ajloun 176,080

Irbid 1.770 million

Mafraq 549,948

Jerash 237,059

Balqa 491,709

Amman 4 million

Zarqa 1.364 million

Madaba 189,192

Karak 316,629

Tafileh 96,291

Maan 144,083

Aqaba 188,160

Percentage of Jordanians covered by health insurance per governorate

Ajloun 95% | Tafileh 94% | Karak 93% | Maan 88% | Jerash 88% | Mafraq 85% | Irbid 79% | Madaba 79% | Aqaba 77% | Balqa 76% | Zarqa 56% | Amman 50.2%

Population of non-Jordanians per nationality

1.265 million | 130,911

636,270 | 31,163

634,182 | 22,700

197,385 Other nationalities

Refugees numbers in Amman districts:

Chart shows the number of refugees in Amman districts according to 2015 census.