

# Human Development Index- District

Jordan Feasibility Report

Prepared for UCLG-MEWA.



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## 1. INGEV Human Development Index – District Study

### 1.1 Background

INGEV's "Human Development Index- Districts (HDI-D)" study was inspired by United Nations Development Program's "Human Development Index (HDI)" which was created to rank countries in terms of human development outcomes such as life expectancy, education and per capita income on a macro level.

The increase in Country's Human Development Index scores over the years raises a question regarding what the results would be within countries. At this point, observing human development on a local scale in today's world, where the localization of human development is increasing, is important both for local authorities and for all segments of society. Especially considering increasing areas of service and diversity of service provided by local authorities, it is clear that they will play an important role in service provision vis-à-vis human development

For this purpose, "Human Development Index- Districts" (HDI-D) is created to focus development at micro level. It is a statistic composite index that evaluates governance, social inclusion, income levels, environment, education, health, social life and transportation in municipalities thus allows in-country comparison and analysis. HDI-D designed to guide policymaking. It provides answers to two main questions of any development policy or project needs to address: Where to target our efforts? & Which issues to focus on?

With HDI-D data set, we can monitor districts' Human Development performance on local level in major population centers in any country. The first Human Development Index–Districts research which was conducted for Turkey, was shared with the public in 2017. After the publication of this research, which covered the most populous 150 districts within the metropolitan municipality borders in Turkey, conferences, workshops and search conferences were held with the participation of municipalities. In these events, the index results of the districts were evaluated together with the district administrators and non-governmental organizations where in-depth analyses were made in terms of the internal dynamics for each district. In 2018, the scope of HDI-D was expanded to 186 districts for the study carried out in Turkey. In the coming period, the Human Development Index-Districts study is planned to be expanded with new indicators and data sources. In addition to Human Development Index-Districts study, in 2020, INGEV will also publish Human Development Index-Metropolitan study for Turkey.

This year, INGEV and UCLG-MEWA built partnership for internalization of Human Development Index – Districts study. As first step, we aim to implement pilot studies in Jordan and Palestine.

INGEV carried out research for verifying the data availability in Jordan on provincial/governate and district level for 7 indexes of INGEV Human Development Index-District study: Governance, social inclusion, economic status index, education

index, health index, social life index, and municipality environmental performance and transportation index, in total there are 56 qualitative or quantitative indicators. In this report, we present the feasibility of conducting the Human Development Index in Jordan.

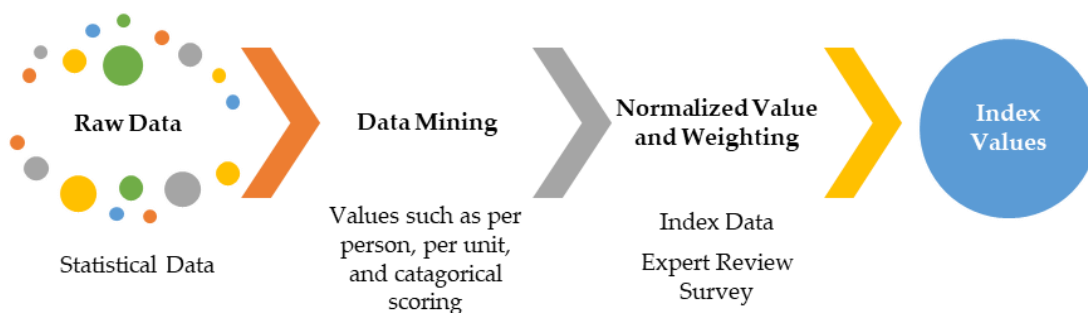
## 1.2 Scope and Methodology

### 1.2.1 Scope and Methodology of Human Development Index-Districts Study

Measuring human development at the local level using manageable indicators that can impact daily life is important for both taking action quickly and local authorities to increase their performance in this context. In this research, the Human Development Index, which UNDP has been publishing since 1990, is reinterpreted with quantitative and qualitative indicators compiled at the micro level and a base is provided for policy makers, especially local authorities, to be more effective in this area.

Each municipality is ranked in main criteria terms of governance, social inclusion, income levels, environment education, health, social life and transportation. Each main index has also a set of indicators which totaled 56 in the latest studies of INGEV. Wide range of data sources utilized range from local government activity reports to “mystery citizens” surveys.

The data allows us to identify geographical locations which has the most urgent human development needs and the key development areas that we need to focus on in given location. In order to envisage the required action plans, policies and project proposals to support human development. The process of the research is as the following: First collection of Raw Data, secondly Data Mining, thirdly Normalizing Value and Weighting and finally deciding the index value.



The value result in this study is decided as 4. The reason for this is the categorization of the United Nations Human Development Index as 4 group levels. Thus, the Human Development Index, which is formed at the level of the districts, is clustered with the Very High, High, Medium and Low Human Development categories in terms of indexes and indicators. The top overall performing municipalities ranked in the green & blue zones which signifies high human development achievements. Municipalities in yellow and red

zones are ranked as mid and low human development areas which require most urgent focus.

### 1.2.2 Scope and Methodology of INGEV Human Development Index-Districts - Feasibility Study for Jordan

In order to assess feasibility of conducting the INGEV Human Development Index in Jordan, first of all, desk research was run on local government system in Jordan. Secondly, secondary data was collected and analyzed regarding Human Development Index-Districts study's 56 indicators. Different activity reports of A level and B level municipalities were reviewed in order to analyze available data to be possibly used in the frame of this research.

Beside municipality activity reports, the data were mainly accessed from the municipalities' official websites, the ministries' websites and the Jordanian Department of Statistics. The available information and statistics were verified on the municipality base and the process focused on the consistency of the available data with the set of 56 indicators used by INGEV Human Development Index-District Study. Moreover, the Jordanian Department of Statistics was contacted to verify the existence of the data on both the province and district level.

\*Please see Annex 1- HDI Jordan - Data Matrix

## 1.3 Indexes and Indicators

Human Development Index-Districts study has 7 indexes: Governance, Social Inclusion, Economic Status, Education, Health, Social Life, Municipal Environmental Performance and Transportation.

Five indicators in the area of Governance, sixteen indicators in the field of Social Inclusion, eight indicators in the field of Economic Status, seven indicators in Education, six indicators in Health, four indicators in Social Life, five indicators in Municipal Environmental Performance and Transportation are used. Therefore, in the calculation of the Human Development Index of Districts, 56 indicators are used.

### HDI-D Indexes and Indicators Chart

INDEXES	INDICATORS
GOVERNANCE AND TRANSPARENCY INDEX	Municipality Information Sharing and Transparency Index
	Access to Municipality Index
	Municipality Social Media Usage Index
	Secret Citizen Index
	Election Participation Rate
SOCIAL INCLUSION INDEX	Diversity of Services for Families

	Quality Score of Services for Families
	Diversity of Services for Children
	Quality Score of Services for Children
	Diversity of Services for Youth
	Quality Score of Services for Youth
	Diversity of Services for Women
	Quality Score of Services for Women
	Diversity of Services for Refugees
	Quality Score of Services for Refugees
	Diversity of Services for Disabled
	Quality Score of Services for Disabled
	Diversity of Services for Sick and Elderly
	Quality Score of Services for Sick and Elderly
	Diversity of Services of Municipality
	Quality Score of Services of Municipality
<b>ECONOMIC STATUS INDEX</b>	Presence of Shopping Centre
	Diversity of Banks
	Number of Bank Branch per Ten Thousand People
	Rental Housing Market Price ( $m^2$ )
	Housing For Sale Market Price ( $m^2$ )
	Annual Change in Housing For Sale Market Price ( $m^2$ )
	Presence of Hypermarket
	Age Dependency Rate
<b>EDUCATION INDEX</b>	Literacy Rate
	Literacy Rate in Women
	Uneducated Women Rate
	University Graduate Rate
	University Graduate Rate in Women
	Average Education Time
	Average Education Time in Women
<b>HEALTH INDEX</b>	Crude Death Rate
	Number of Ambulance per Ten Thousand People
	Number of Pharmacy per Ten Thousand People
	Diversity of Services for Sick and Elderly
	Quality Score of Services for Sick and Elderly
	Diversity of Services for Disabled
	Quality Score of Services for Disabled
	Presence of State Hospital
Presence of Private Hospital	
Presence of University Hospital	
<b>SOCIAL LIFE INDEX</b>	Presence of Private Museum
	Number of Cinemas
	Number of Theatres
	Diversity of Social and Cultural Services
	Quality Score of Social and Cultural Services

**MUNICIPALITY ENVIRONMENTAL  
PERFORMANCE AND TRANSPORTATION  
INDEX**

Diversity of Services for Stray Animals
Quality Score of Services for Stray Animals
Diversity of Services for Environment
Quality Score of Services for Environment
Presence of Subway, Light Subway and Tramway

## 2. Feasibility Study for INGEV Human Development Index – Jordan

### 2.1 Local Government System in Jordan

Jordan has a newly updated local government system that had been improved and went through major changes in the last decades. Lastly, the Governorate Councils (GCs) elections were held on 15 August 2017, and governed by the Decentralization Law No. (49) of 2015.

Jordan is currently divided into 12 governorates. Each is headed by a governor, who is appointed by the King and is responsible for the execution of national policies on the governorate level. These governorates are principally reporting and under the responsibility of the Ministry of Interior Affairs.

The municipalities fall under the authority of the Ministry of Municipal Affairs (MoMA) whereas The Ministry of Interior supervises all the bodies, set plans and budgets and appoints governors, mayors and regional managers.

In the Jordanian local government system, a specific classification of municipalities is adopted. The municipalities are classified, from the legislative and practical point of view, into four categories, which determine their responsibilities, duties and finance as decided by the law:

**A Level Municipalities:** The first category of Municipalities groups the centers of the Governorates and cities having more than 100.000 inhabitants. Due to the fact that there are only three main governorates which have a population exceeding 100.000 inhabitants, the municipalities of the first category are only 11. (eleven plus the Municipality of Greater Amman)

**B Level Municipalities:** The second category groups the municipalities which have the function of center of district or cities which have a population more than 15.000 inhabitants; and their number is 89.

**C Level Municipalities:** The third category is that of the municipalities/ cities which are the centers of subdistricts or whose population is located between 5.000 and 15.000 inhabitants.

**D Level Municipalities:** The fourth category groups all other municipalities or village councils under the number of 5.000 inhabitants.

## 2.2 Data Availability in Jordan

In this study INGEV examines data availability in Jordan for 7 indexes. In the Human Development Index study to be conducted in Jordan, INGEV plans to cover municipalities under A Level and B Level. A Level and B Level Municipalities are legally obligated to present annual activity reports and semesterly financial and strategic reports. These municipalities also prepare development proposals to the executive council on the governorate level. They also publish annual reports about the conducted projects in different sectors responding to the legal responsibility established by the Decentralization Law No. (49) of 2015.

### 2.2.1 Governance and Transparency Index

Governance and Transparency indicators could be found on the activity reports of the municipalities and from official websites and is examined in 5 chapters. The Governance and Transparency indicators are the following:

- **Municipality Information Sharing and Transparency Index:** The data is based on the municipalities' internet sites and activity reports. It is calculated based on the availability and sharing of some basic data regarding the accessibility and content of the municipal activity reports. It consists of a combination of access to the activity report, the schedule of publishing the municipal annual report, the activity of the municipal activity report, the sharing of the budget indicators in the municipal annual report and the sharing of performance charts in the municipal annual report on the municipality website.
- **Access to Municipality Index:** Residents' access to municipality authorities by using the website of the municipality is evaluated. The topics examined under this heading are the possibility of transmitting messages to the head of the municipality via its website, the existence of a municipal call center, the possibility of access to the municipality website in different languages, the presence of e-municipality and mobile application.
- **Municipal Social Media Usage Index:** The social media usage index is used to evaluate the presence of Facebook, Instagram, Youtube and Twitter accounts.
- **"Secret Citizens" Index:** The "Secret Citizen" method is used to communicate with municipalities through telephone and e-mail, and preformed scenario questions are directed. All municipalities are scored on the return rate and the results are included in the index calculation.
- **Rate of Election Participation:** Department of Statistics and Supreme Electoral Council statistics are used.

**Data Availability in Jordan:** The Jordanian Municipalities under A and B Level publish their Activity Reports annually, have websites, call centers, social media accounts, email address and therefore the same indicators as well as Secret Citizen method could be used for the Human Development Index study to be conducted on provincial and district level.



The main sources to be used are:

- ✓ Municipality Activity Reports
- ✓ Municipality official website and social media profiles
- ✓ Department of Statistics
- ✓ Secret Citizen Survey

### 2.2.2 Social Inclusion Index

The evaluation in the Social Inclusion Index is based on the municipal activity reports. The activity reports of the municipalities are checked and the activities included in the report are clearly listed. Activities in the categories of family, children, youth, sick and elderly, women, disabled and refugees are taken into consideration under Social Inclusion indicators. The activities included in the activity reports are reclassified to summarize the characteristics of the activity besides the basic categories.

**Data Availability in Jordan:** The Jordanian Municipalities under A and B Level publish their Activity Reports annually. The inability to reach details in some reports or the lack of some sections will be taken into account in the analysis process.

### 2.2.3 Economic Status Index

The Economic Status Index is composed of 8 indicators. The numerical data for retail trade, number and variety of banks, housing rates for sale and rent and age dependency ratios are used on the basis of provinces and districts.

**Data Availability in Jordan:** The data is available in the categories listed above for A level and B level Municipalities, and could be obtained from the following resources:

- ✓ Department of Statistics, Economic Department
- ✓ Municipality Activity Reports

In addition, a new indicator could be added “Number of financially supported/grant given companies” where we could reach data from “Ministry of Digital Economy and Entrepreneurship”.

### 2.2.4 Educational Index

For this indicator, literacy, duration of education and higher education information are compiled using a total of seven indicators, measuring the general average and the average for women.

- Literacy rate
- Female literacy rate
- Percentage of women who have never been educated
- University graduation rate
- University graduation rate of females
- Average duration of education

- Average duration of education of females

**Data Availability in Jordan:** In Jordan, literacy, duration of education and higher education information is available in official sources for A Level and B Level Municipalities. In addition, gender related statistics are also available, Department of Statistics has Gender Statistics Division publishing required data. The main sources to be used for this indicator are:

- ✓ Department of Statistics
- ✓ Ministry of Education
- ✓ Ministry of Higher Education and Research

### 2.2.5 Health Index

Hospitals, pharmacies and ambulances, presence of private, public and university in provinces and districts are compiled as Health indicators. In addition to these, the rough death rate is also one of the topics taken into consideration.

Municipality Activity Reports are used to list the municipal activities for parents and elderly and people with disabilities. The scope and quality of services are scored.

Health index has 10 indicators:

- Crude mortality rate
- Number of ambulances per ten thousand people
- Number of pharmacies per ten thousand people
- Hospital presence (in private, state and university detail)
- Diversity of activities for patients and elderly
- Quality score of patient and elderly activities
- Diversity of activities for disabled
- Quality score of services for disabled
- Presence of state hospitals
- Total Number of hospitals

**Data Availability in Jordan:** These indicated health indicators related statistics could be reached from the following resources for A Level and B Level Municipalities:

- Municipality Activity Reports
- Municipality Websites
- Department of Statistics, Health Department
- Ministry of Health

### 2.2.6 Social Life Index

Social Life index have indicators related to museum existence, cinema and theatre as well as social and cultural services mentioned in activity reports of the municipalities. The

activities included in the categories of cultural activities are evaluated as Social Life indicators. As in the evaluation of Social Inclusion indicators, they are reclassified to summarize the nature of the activity as performed and the qualifications are evaluated.

A total of five indicators are taken into consideration in Social Life indicators:

- The existence of private museums
- Number of cinemas
- Number of theaters
- Variety of social and cultural services
- Quality score of social and cultural services

**Data Availability in Jordan:** In Jordan, information on number of private museums, cinemas and theatres could be reached from official sources for A Level and B Level Municipalities. Activity reports of A Level and B Level Municipalities will also be used to check, list and assess quality of social and cultural services and their quality.

The following institutions presents the main references for the indicators in the social life index:

- ✓ Ministry of Culture
- ✓ Ministry of Tourism and Antiquities / Domestic Tourism Department
- ✓ Department of Statistics
- ✓ Municipality Activity Reports

### 2.2.7 Environmental Performance and Transportation Index

The five indicators taken into account in the Municipal Environmental Performance and Transportation Index are as follows:

- Variety of services for the environment
- Quality scores of services for the environment
- Variety of services for stray animals
- Quality scores of services for stray animals
- Subway, light rail, tram line presence

**Data Availability in Jordan:** The evaluation of variety of services for the environment and stray animals are based on the open listing from the municipal activity reports, the summarization of the quality of services and scoring the services delivered. Municipal Activity Reports of A Level and B Level Municipalities will be used to access information. Subway, light rail, tram line infrastructure is not well developed in Jordan and therefore data for “Subway, light rail, tram line presence” indicator is not available.

The main sources to be used for this indicator are:

- ✓ Municipality Activity Report
- ✓ Ministry of Environment

New indicators could be added to the Environmental Performance and Transportation Index for provincial and district level studies to be conducted in Jordan due to the specific geographical reality of the country. Statistics concerning water and agriculture are important in the Jordanian Municipal system, and different municipalities give support to agricultural projects. Therefore, this index could be enriched with new indicators on water resource management and agricultural services.

### 3. Conclusion

In the Jordanian local government system, a specific classification of municipalities is adopted. The municipalities are classified, from the legislative and practical point of view, into four categories (A Level, B Level, C Level and D Level), which determine their responsibilities, duties and finance as decided by the law.

2 different Studies could be run for Jordan; the first one could target the A Level Municipalities (11 municipalities and the Municipality of Greater Amman which have a population exceeding 100.000 inhabitants). The second one could target the B Level Municipalities which have the function of center of district or cities which have a population more than 15.000 inhabitants (89 municipalities).

Human Development Index-District study has 56 indicators under 7 different categories. Reliable data could be reached for 55 indicators for A Level Municipalities and for 55 indicators for B Level Municipalities. Data for “Subway, light rail, tram line presence” indicator is not available since subway, light rail, tram line infrastructure is not well developed in Jordan, this indicator could be changed based on the transportation means commonly used in Jordan.

On the other hand, new indicators could be added to the “Environmental Performance and Transportation Index” for A Level and B Level study to be conducted in Jordan due to the specific geographical reality of the country. Statistics concerning water and agriculture are important in the Jordanian Municipal system, and different municipalities give support to agricultural projects. This index could be enriched with new indicators on water resource management and agricultural services.

In 2020, as first step, INGEV suggest to conduct the Human Development Index – District study for A level municipalities in Jordan and organize a Launching Meeting in cooperation with UCLG-MEWA.

## Annex 1: INGEV Human Development Index – Data Matrix for Jordan

INGEV Human Development Index Indicators	Data Availability on Provincial Level	Source	Data Availability on the District Level	Source
<b>GOVERNANCE AND TRANSPARENCY INDEX</b>				
Municipality Information Sharing and Transparency Index	✓	Municipality Activity Reports Municipality Websites	✓	Municipality Activity Reports Municipality Websites
Access to Municipality Index	✓	Municipality Activity Reports Municipality Websites	✓	Municipality Activity Reports Municipality Websites
Municipality Social Media Usage Index	✓	Municipality Activity Reports Municipality Websites	✓	Municipality Activity Reports Municipality Websites
Secret Citizen Index	✓	Secret Citizen Survey	✓	Secret Citizen Survey
Election Participation Rate	✓	Ministry of Local Administration	✓	Ministry of Local Administration
<b>EDUCATION</b>				
Literacy Rate	✓	Interactive Database Department of Statistics	✓	Interactive Database Department of Statistics
Literacy Rate in Women	✓	Interactive Database Department of Statistics	✓	Interactive Database Department of Statistics
Uneducated Women Rate	✓	Interactive Database Department of Statistics	✓	Interactive Database Department of Statistics
University Graduate Rate	✓	Interactive Database Department of Statistics	✓	Interactive Database Department of Statistics
University Graduate Rate in Women	✓	Interactive Database Department of Statistics	✓	Interactive Database Department of Statistics
Average Education Time	✓	Interactive Database Department of Statistics	✓	Interactive Database Department of Statistics
Average Education Time in Women	✓	Interactive Database Department of Statistics	✓	Interactive Database Department of Statistics
<b>HEALTH INDEX</b>				
Crude Death Rate	✓	Ministry of Health Department of Statistics	✓	Ministry of Health Department of Statistics
Number of Ambulance per Ten Thousand People	✓	Ministry of Health	✓	Ministry of Health

Number of Pharmacy per Ten Thousand People	✓	Ministry of Health	✓	Ministry of Health
Diversity of Services for Sick and Elderly	✓	Municipality Activity Reports Municipality Websites	✓	Municipality Activity Reports Municipality Websites
Quality Score of Services for Sick and Elderly	✓	Municipality Activity Reports Municipality Websites	✓	Municipality Activity Reports Municipality Websites
Diversity of Services for Disabled	✓	Municipality Activity Reports Municipality Websites	✓	Municipality Activity Reports Municipality Websites
Quality of Services for Sick and Elderly	✓	Municipality Activity Reports Municipality Websites	✓	Municipality Activity Reports Municipality Websites
Presence of State Hospital	✓	Ministry of Health Web Search	✓	Ministry of Health Web Search
Total Number of Hospital	✓	Ministry of Health Web Search	✓	Ministry of Health Web Search
<b>SOCIAL INCLUSION INDEX</b>				
Diversity of Services for Families	✓	Municipality Activity Report	✓	Municipality Activity Report
Quality Score of Services for Families	✓	Municipality Activity Report	✓	Municipality Activity Report
Diversity of Services for Children	✓	Municipality Activity Report	✓	Municipality Activity Report
Quality Score of Services for Children	✓	Municipality Activity Report	✓	Municipality Activity Report
Diversity of Services for Youth	✓	Municipality Activity Report	✓	Municipality Activity Report
Diversity of Services for Youth Quality Score of Services for Youth	✓	Municipality Activity Report	✓	Municipality Activity Report
Diversity of Services for Women	✓	Municipality Activity Report	✓	Municipality Activity Report
Diversity of Services for Refugees	✓	Municipality Activity Report * Available in the governates/cities facing refugee issues	✓	Municipality Activity Report * Available in the cities/districts facing refugee issues
Diversity of Services for Disabled	✓	Municipality Activity Report	✓	Municipality Activity Report
Diversity of Services for Sick and Elderly	✓	Municipality Activity Report	✓	Municipality Activity Report
Diversity of Services of Municipality	✓	Municipality Activity Report	✓	Municipality Activity Report
<b>ECONOMIC STATUS INDEX</b>				
Presence of Shopping Centre	✓	Internet research	✓	Internet research

Diversity of Banks	✓	Municipality Activity Report	✓	Municipality Activity Report
Number of Bank Branch per Ten Thousand People	✓	Municipality Activity Report	✓	Municipality Activity Report
Rental Housing Market Price (m2)	✓	Municipality Activity Report	✓	Municipality Activity Report
Housing For Sale Market Price (m2)	✓	Municipality Activity Report	✓	Municipality Activity Report
Annual Change in Housing For Sale Market Price (m2)	✓	Municipality Activity Report	✓	Municipality Activity Report
Presence of Hypermarket	✓	Municipality Activity Report	✓	Municipality Activity Report
Age Dependency Rate	✓	Department of Statistics	✓	Department of Statistics
<b>MUNICIPALITY ENVIRONMENTAL PERFORMANCE AND TRANSPORTATION</b>				
Diversity of Services for Stray Animals	?	Municipality Activity report Ministry of Environment	?	Municipality Activity report Ministry of Environment
Quality Score of Services for Stray Animals	?	Municipality Activity report	?	Municipality Activity report
Diversity of Services for Environment	✓	Municipality Activity report Ministry of Environment	✓	Municipality Activity report Ministry of Environment
Quality Score of Services for Environment	✓	Municipality Activity report Ministry of Environment	✓	Municipality Activity report Ministry of Environment
Presence of Subway, Light Subway and Tramway	NA	This variable could be changed to verify other transportation means	NA	This variable could be changed to verify other transportation means
<b>SOCIAL LIFE INDEX</b>				
Presence of Private Museum	✓	Web search Ministry of Culture Ministry of Tourism	✓	Web search Ministry of Culture Ministry of Tourism
Number of Cinemas	✓	Web search Ministry of Culture Ministry of Tourism	✓	Web search Ministry of Culture Ministry of Tourism
Number of Theatres	✓	Web search Ministry of Culture Ministry of Tourism	✓	Web search Ministry of Culture Ministry of Tourism
Diversity of Social and Cultural Services	✓	Municipality Activity Report	✓	Municipality Activity Report
Quality Score of Social and Cultural Services	✓	Municipality Activity Report	✓	Municipality Activity Report

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