



COPY

REGENT SUKOHARJO
PROVINCE OF CENTRAL JAVA
SUKOHARJO REGENCY REGULATIONS
NUMBER 3 OF 2018

ABOUT

SMART CITY MASTER PLAN FOR SUKOHARJO DISTRICT

BY THE GRACE OF GOD ALMIGHTY

REGENT SUKOHARJO,

Considering: a. that *smart city* is a concept for managing a government system by utilizing information and communication technology effectively, efficiently and accountably to maximize services to the community;

b. that every program and activity is formulated comprehensively and integrated in order to improve government functions in public services, community empowerment, education, health, poverty, culture and

increasing Human Resources to be able to provide maximum benefits for the benefit of society;

c. that based on the considerations as intended in letters a and b, it is necessary to stipulate a Regent's Regulation concerning the Sukoharjo Regency *smart city* Master Plan;

Bearing in mind: 1. Law Number 13 of 1950 concerning the Establishment of Regency Areas within the Province of Central Java;

2. Law Number 11 of 2008 concerning Information and Electronic Transactions (State Gazette of the Republic of Indonesia of 2008 Number 58, Supplement to State Gazette of the Republic of Indonesia Number 4843);

3. Law Number 14 of 2008 concerning Openness of Public Information (State Gazette of the Republic of Indonesia of 2008 Number 61, Supplement to State Gazette of the Republic of Indonesia Number 4846);

4. Law Number 25 of 2009 concerning Public Services (State Gazette of the Republic of Indonesia of 2009 Number 112, Supplement to State Gazette of the Republic of Indonesia Number 5038);
5. Law 12 of 2011 concerning the Formation of Legislation (State Gazette of the Republic of Indonesia of 2011 Number 82, Supplement to the State Gazette of the Republic of Indonesia Number 5234);
6. Law Number 23 of 2014 concerning Regional Government (State Gazette of the Republic of Indonesia of 2014 Number 244, Supplement to the State Gazette of the Republic of Indonesia Number 5587) as amended several times, most recently by Law Number 9 of 2015 concerning the Second Amendment to the Law. Law Number 23 of 2014 concerning Regional Government (State Gazette of the Republic of Indonesia of 2015 Number 58, Supplement to State Gazette of the Republic of Indonesia Number 5679);
7. Government Regulation Number 82 of 2012 concerning Implementation of Electronic Systems and Transactions (State Gazette of the Republic of Indonesia of 2011 Number 189, Supplement to State Gazette of the Republic of Indonesia Number 5348);
8. Government Regulation Number 96 of 2012 concerning Implementation of Law Number 25 of 2009 concerning Public Services (State Gazette of the Republic of Indonesia of 2012 Number 215, Supplement to the State Gazette of the Republic of Indonesia Number 5357);
9. Presidential Regulation Number 87 of 2014 concerning Implementing Regulations of Law Number 12 of 2011 concerning the Formation of Legislation (State Gazette of the Republic of Indonesia of 2014 Number 199);
10. Minister of Home Affairs Regulation Number 80 of the Year 2015 concerning the Establishment of Regional Legal Products (State Gazette of the Republic of Indonesia of 2015 Number 2036);
11. Sukoharjo Regency Regional Regulation Number 12 of 2016 concerning the Formation and Structure of Regional Apparatus (Sukoharjo Regency Regional Gazette of 2016 Number 12, Supplement to Sukoharjo Regency Regional State Gazette Number 236);

DECIDE :

To stipulate: REGENT'S REGULATION CONCERNING THE MASTER PLAN
SMART CITY SUKOHARJO DISTRICT.

PIG

GENERAL REQUIREMENTS

article 1

In this Regent's Regulation what is meant by:

1. The region is Sukoharjo Regency.
2. Regional Government is the Regent as the organizing element of Regional Government which leads the implementation of government affairs which are the authority of the autonomous region.
3. The Regent is the Regent of Sukoharjo.
4. Regional Apparatus is the supporting element of the Regent and the Regional People's Representative Council in the implementation of Government Affairs which fall under the authority of the Region.
5. Public services are activities or series of activities in order to fulfill service needs in accordance with statutory regulations for every citizen and resident regarding goods, services and/or administrative services provided by public service providers.
6. Information Technology is a technique for collecting, preparing, storing, processing, announcing, analyzing and/or disseminating information.
7. *The Smart City* Master Plan is an information technology master plan document which is the official reference in the development and application of information technology in the Sukoharjo Regency Government.

CHAPTER II

OBJECTIVE

Section 2

This Regent's Regulation was prepared with the following objectives:

- a. apply the material foundation of *smart* development *city* in the Sukoharjo Regency area;

- b. establish guidelines for regional development planning for Sukoharjo Regency based on *smart city* dimensions consisting of *smart governance, smart economy, smart society, smart branding, smart living* and *smart environment*; And
- c. determine short-term, medium-term and long-term *smart city* development priorities.

CHAPTER II

SCOPE

Article 3

- (1) The scope of this Regent's Regulation covers all Regional Government programs and activities implemented by Regional Apparatus.
- (2) The scope of Government programs and activities Regions as referred to in paragraph (1) are prioritized in the areas of:
 - a. Public services which include public services in the sectors:
 - 1. education;
 - 2. health;
 - 3. public works;
 - 4. workforce;
 - 5. relations; And
 - 6. community empowerment.
 - b. administration and General Management;
 - c. legislative administration;
 - d. development management;
 - e. financial management; And
 - f. personnel management.
- (3) The scope as intended in paragraph (2) can be adjusted to needs and developments so as not to limit the implementation of Regional Government programs and activities.

CHAPTER IV

TARGET

Article 4

Targets for implementing the Regency *Smart City* Master Plan Sukoharjo are as follows:

- a. realizing effective, efficient, dynamic and participatory regional government implementation governance in order to improve the performance of bureaucratic apparatus through the implementation of information technology;
- b. strengthening the existence of regional governments by developing information technology-based services;
- c. realizing an ecosystem that supports the economic activities of society based on information technology so that a society that is humane, dynamic and masters *digital literacy is formed*;
- d. guarantee the quality of life of the community; And
- e. creating and managing a smart environment and ensuring sustainable development;

CHAPTER V

SYSTEMATIC

Article 5

- (1) The Sukoharjo Regency *Smart City* Master Plan is prepared systematically as follows:
 - a. introduction;
 - b. Sukoharjo Regency *smart city* vision ;
 - c. Sukoharjo Regency *smart city* development strategy ;
 - d. Sukoharjo Regency *smart city* action plan ;
 - e. Sukoharjo Regency *smart city* development road map ; And
 - f. closing.
- (2) Systematics of the Sukoharjo Regency *Smart City* Master Plan as intended in paragraph (1) as stated in the Attachment which is an inseparable part of this Regent's Regulation.

CHAPTER VI

SMART CITY INSTITUTIONS

Article 6

- (1) In the context of implementing the *Smart City* Master Plan Sukoharjo Regency was formed:
- a. *Smart City* Council ; And
 - b. *Smart City* Technical Team .
- (2) The *Smart City* Council and *Smart City* Technical Team as referred to in paragraph (1) are determined by a Regent's Decree.

CHAPTER VII

CLOSING

Article 7

When this Regent's Regulation comes into force, Regent's Regulation Number 50 of 2015 concerning the Master Plan for E-Government Development of the Regional Government of Sukoharjo Regency for 2015 – 2019 (Regional Gazette of Sukoharjo Regency for 2015 Number 50) will be revoked and declared invalid.

Article 8

This Regent's Regulation comes into force on the date of promulgation.

So that everyone is aware, this Regulation is ordered to be promulgated by placing it in the Regional Gazette of Sukoharjo Regency

Stipulated in Sukoharjo, on
January 2 2018

REGENT SUKOHARJO,

signed

WARDOYO WIJAYA

Promulgated in Sukoharjo on
January 2 2018

REGIONAL SECRETARY
SUKOHARJO DISTRICT,

signed

AGUS SANTOSA

REGIONAL NEWS SUKOHARJO DISTRICT
YEAR 2018 NUMBER 3

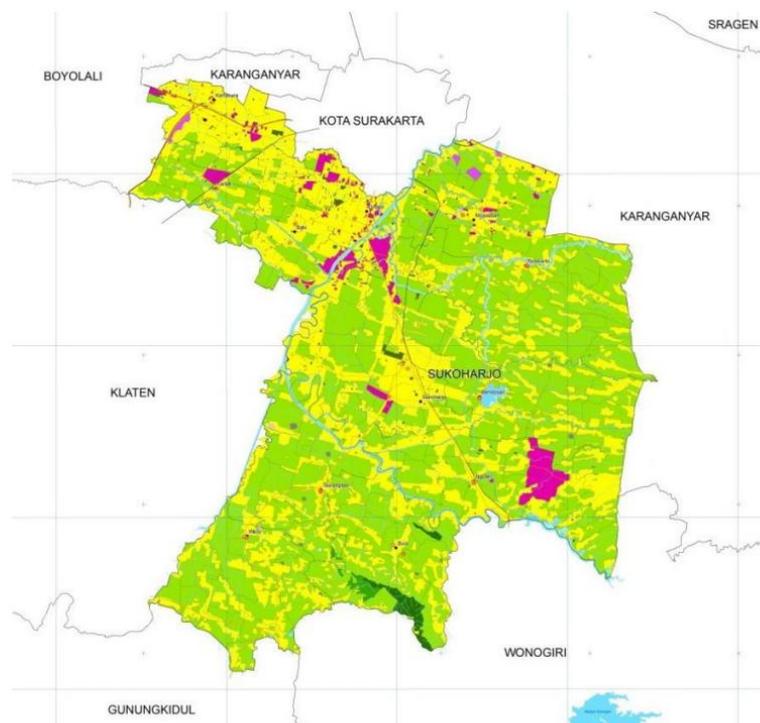
SMART CITY MASTER PLAN FOR SUKOHARJO DISTRICT

A. INTRODUCTION

A.1. Background

Sukoharjo Regency is the second smallest district in Indonesia Central Java Province which was established on July 15 1946 based on :

1. Government Determination Number: 16/SD.
2. Law Number 13 of 1950, concerning the Establishment of Regions Districts in the Central Java Province region.
3. Dati II Sukoharjo Regency Regional Regulation No. 17 of 1986 regarding the Birthday of Sukoharjo Regency, which was ratified by decree Governor of KDH Level I Central Java dated 15 December 1986 No. 188.3/480/1986 and promulgated in the Regional Gazette Dati II Sukoharjo Regency No. 3 of 1987 Series D No.2 dated 9 January 1987.



Geographically, it is located between the eastern tip of 110. 57° East Longitude, Western Edge 11° 42° East Longitude, Northern Edge 7.32° South Latitude, Northern Edge 7.49° 32.00° South Latitude. With an area of 46,666 Km², or 1.43% of the area of Central Java Province. Regency Sukoharjo has the following administrative boundaries:

North	:	City	Surakarta	And	Regency
			Karanganyar		
South side	:		Gunung Kidul Regency (DIY) and		
			Wonogiri Regency		
West Side	:		Karanganyar Regency		
East	:		Boyolali Regency and Klaten Regency		

Topographically it consists of areas, lowlands and hills. Lowland areas are areas in the North, hilly areas are areas in the South and East.

The land use pattern consists of housing, fields, gardens mixed, rice fields, companies, services, industry and other uses with a distribution of rice fields of 45.26%, and non-rice fields of 54.74%, of the rice fields consists of 70.17% technical irrigation, half irrigation technical 8.98%, simple irrigation 9.17% and rainfed rice fields 11.67%.

Based on Sukoharjo Regency Regional Regulation Number 14 2011 concerning Sukoharjo Regency Regional Spatial Planning Plan In 2011-2031, Sukoharjo Regency has a structuring goal space, namely creating a district that relies on sectors agriculture, environmentally friendly industrial sectors and development infrastructure for increased accessibility. The agricultural sector is sector

The geographical location of Sukoharjo Regency is directly adjacent to it with the city of Surakarta causing rapid industrial growth. This matter This also causes relatively rapid population growth. With

This population increase causes various problems such as decreasing the quality of public services, reducing agricultural land. Due to changes in function to industrial or residential land, reduced residential land, traffic jams on the highway, it is difficult getting parking space, waste problems, pollution environment, increasing crime and other social problems. And with the increasing rate of industrial growth and population in Sukoharjo Regency causes an increase in and increasing these problems. To complete as well Preventing problems from arising requires smart solutions.

Currently in Indonesia the concept of smart cities is developing, where *Smart City* is a smart city concept that helps the people in it by managing its resources there efficiently and provide the right information to society/institutions within do his activities or Anticipate unforeseen events. According to Caragliu, A., et al in Schaffers (2010:3) *smart city* is defined as cities that are able to use human resources, social capital and infrastructure modern telecommunications to realize economic growth sustainability and a high quality of life, with wise management of resources through participation-based governance public. Meanwhile, according to Ahmad Nurman in Management Urban, smart city or *smart city*, is generally based on 3 things, firstly the human factor, a city with creative people in work, knowledge networks, an environment free from criminal. Second, technological factors, cities based on communication technology and information. Lastly, institutional factors, urban communities (government, business circles and residents) who understand information technology and make decisions based on information technology.

According to Cohen (2011) smart cities are identified in six ways The main dimensions are *smart government, smart economy, smart society, smart mobility, smart environment and quality of life*. The definition of smart mobility as one of its dimensions is smart mobility in a smart city that emphasizes easy movement.

This demands innovative and sustainable capabilities. Of six
 In implementing these dimensions, each city can focus on one of the dimensions
 depending on the characteristics of the city and the urgency of the problem.

The *smart city* development process is a sustainable effort
 and requires time that is not immediate and requires involvement
 many parties from citizens, government, private parties and various
 other stake holders. Based on the description above, the Government
 Sukoharjo Regency needs a forum as a place for
 accommodating various innovations to create a Sukoharjo society
 prosperous, advanced, dignified and professional with the *Smart City* Master Plan for
 Sukoharjo Regency.

This Master Plan is the basis and guide for developing the smart city concept
 in Sukoharjo Regency. The Master Plan plays a role
 help the Government determine policies, regulations, directions and priorities
 buliding the city.

A.2. Master Plan Objectives

Preparation of Sukoharjo *Smart City* Master Plan 2018-
 2022 aims to provide direction for accelerating strategies and policies
 and the Sukoharjo Regency development program that has been outlined
 in Development Planning Documents such as Plans
 Medium Term Development (RPJM) 2016-2021, Plan
 Long Term Development (RPJP) 2005-2025 and Tata Plan
 Regional Space (RTRW) Sukoharjo Regency 201-203 with
 planning approach for 6 (six) *Smart City* pillars , *namely smart governance,*
smart environment, smart living, smart branding, smart society and smart
economy.

The process of preparing the *Smart City* Master Plan with
 carry out analyzes such as future analysis, readiness analysis
 area (structure, infrastructure and uprastructure). In the future,
 It is hoped that with the *Smart City Master Plan* for Sukoharjo Regency
 2018-2022, the problems that exist in the Regency

Sukoharjo can be completed in accordance with the targets that have been achieved stated in the planning document.

A.3. Legal Foundation

This is the legal basis for drafting

The Sukoharjo *Smart City* Master Plan is as follows:

1. Law Number 25 of 2004 concerning Planning Systems
Regional development;
2. Law Number 26 of 2007 concerning Spatial Planning;
3. Law Number 11 of 2008 concerning Information and Transactions
Electronic;
4. Law Number 14 of 2008 concerning Information Openness
Public;
5. Law Number 25 of 2009 concerning Public Services;
6. Law Number 32 of 2004 concerning Regional Government;
7. Law Number 18 of 2016 concerning Regional Apparatus;
8. Presidential Instruction Number 3 of 2003 concerning Policy and Strategy
National *e-Government* Development
9. Regulation of the Minister of Communication and Information Technology Number 14 of 2016
regarding Guidelines for Nomenclature of Regional Devices in the Field of Communications and
Informatics;
10. Memorandum of Understanding (MoU) between the Ministry of Communication
and Informatics with Regional Heads in 2017 regarding Implementation
Program Towards 100 *Smart Cities* in Indonesia;

A.4. Smart City Framework

In building a *Smart City*, Sukoharjo Regency has have Smart Regional Readiness or *Smart City Readiness* several main elements of smart region readiness, namely natural potential , regional structure (*structure*), infrastructure (*infrastructure*), superstructure (*suprastructure*) and culture (*culture*). To prepare this Master Plan, the *Smart City Readiness* study emphasized only three elements, namely structure, infrastructure and superstructure. An overview of the readiness elements of the Sukoharjo Regency smart area is as follows:

- Structure: development of human resources for implementers and recipients *Smart City* benefits , budget and resource preparation governance.
- Infrastructure: infrastructure development to support *Smart City* development includes physical infrastructure, infrastructure information and communication technology and social infrastructure.
 Currently there are 40 OPDs in all villages and 167 sub-districts have been connected via cable and fiber networks optics which is based at the Sukoharjo Regency Communications and Information Service.

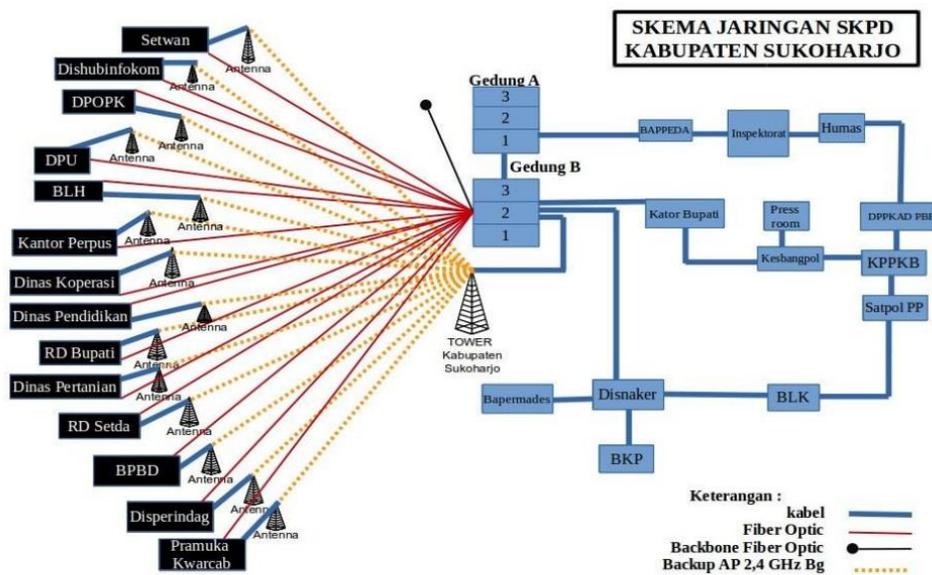


Figure A.1. Suko-net, network for all OPDs and villages

For village and sub-district internet, all of them have internet access with a capacity of 20 Mbps for each village.

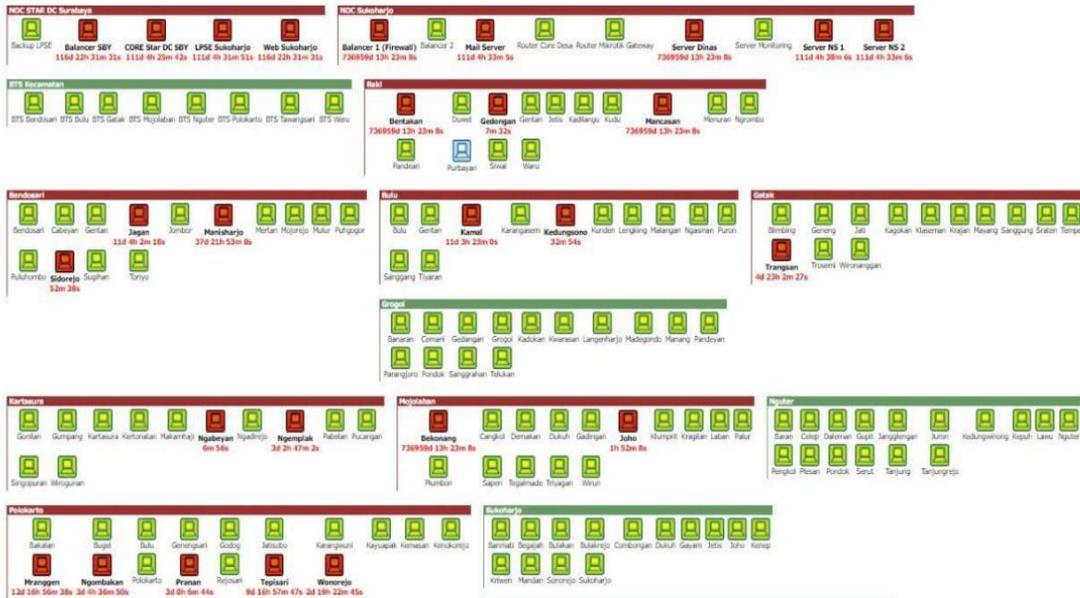


Figure A.2. Connected village, internet network throughout the village

- Superstructure: preparation of regional policies or regulations , institutions and implementation management of *Smart City* development

Elemen Pembangunan Smart City



Source: Citiasia Inc.

Figure A.3. Smart City Dimensions

In figure A.3. can be explained that to run

Several dimensions make up the *Smart City series*, so several elements are needed in each dimension. First, *smart governance* can be interpreted as smart city governance, where this governance component generally highlights the governance of local government as an institution.

which controls the aspects of city life.

So *Smart Governance* is in the *Smart* dimension

City is an illustration of the governance that is implemented intelligently, namely governance that is able to change patterns of traditional patterns in bureaucracy resulting in business processes which is faster, more effective, efficient, communicative and always performs improvement. The target of *Smart Governance* is to realize regional governance and administration that is effective, efficient, communicative, and continue to improve bureaucratic performance through innovation and integrated technology adoption.

Of course, changing traditional patterns in government governance can be done in various ways, but the adoption of technology is something that will accelerate these changes. *Smart Governance* must be implemented into three elements of governance, namely: Service , Bureaucracy and Policy.

Second, *smart branding*, namely smart regional branding. Which

What is meant by *Smart Branding* is innovation in marketing the region so that it can increase regional competitiveness by developing three elements, namely: Tourism , Business

and the face of the city (*Appearance*). *The target* of smart branding is existence increasing regional competitiveness by restructuring the face of the city and marketing regional potential both locally, nationally and International.

Third, smart economy or smart economic governance.

Smart Economy in *Smart City* is intended to realize economic ecosystem in the region that is able to meet the challenges in

The information era is disruptive and demands a rapid level of adaptation like now.

The target of the *smart economy* dimension in a *Smart City* is to create an ecosystem that supports community economic activities in line with leading regional economic sectors that are adaptive to changes that occur in the current information era, as well as improving community *financial literacy* through various programs including realizing a *less-cash society*. This goal is realized by developing three elements in a smart economy, namely: Ecosystem Industry (*Industry*), Increasing Community Welfare (*Welfare*) and Financial Transaction Ecosystem (*Transaction*).

Fourth, *smart living* (quality of life). Being cultured means that humans have a measurable quality of life (culture). Quality of life is dynamic, in the sense that it is always trying to improve herself.

Fifth, *smart society* is a dimension that has been discussed a lot about humans as the main element of a city. In a *Smart City*, human interaction has moved towards a socio-technical ecosystem where the physical and virtual dimensions of the lives of city residents are increasingly intensively intertwined. Interaction between residents is becoming stronger and without barriers to technological mediation. The target of a *smart society* in a *Smart City* is to create a socio-technical ecosystem for society humanist and dynamic, both physical and virtual for creation a productive, communicative and interactive society with *digital high literacy*. The goals of the smart society are realized by development of three elements in a smart society, namely: Community of Citizens (*Community*), Learning Ecosystem (*Learning*) and Security System (*Security*).

And sixth, *smart environment* is environmental management smart, where what is meant by smart is attention for the environment in urban development of the same magnitude with attention given to the development of physical infrastructure as well as development of facilities and infrastructure for residents. Basic idea

of a *smart environment* in a *Smart City* is to realize sustainable development, which must not be lost with the birth of the idea of a *Smart City* which uses technological elements as the driving element, including the following: developing Environmental Protection Program (*Protection*), developing Governance Garbage and Waste *and* developing Yang Energy Management Responsible (*Energy*).

B. SMART CITY VISION OF SUKOHARJO DISTRICT

Regency Regional Medium Term Development Plan Sukoharjo 2016-2021 has established a Regency Development mission Sukoharjo is CONTINUING TO BUILD MORE SUKOHARJO PROSPEROUS, ADVANCED, AND Dignified, SUPPORTED BY THE GOVERNMENT PROFESSIONAL. Sukoharjo Regency Development Vision It is hoped that it will realize the wishes and mandate of the community Sukoharjo Regency. Sukoharjo Regency Development Vision Its success must be able to be measured within a period of 5 (five) years In the future, the meaning contained in the Vision is described as: following:

- **PROSPEROUS:** Contains meaning in the next five years there is an increasing increase in social welfare, which indicated by an increase in the per capita income of the population which also has an impact on reducing poverty rates, as well as increasing the affordability of community services in the community fulfill basic needs.
- **FORWARD :** Contains the meaning of regional development conditions based on a shared desire to realize the future a better economic, social and physical environment is supported superior, professional, highly civilized human resources, competitive, noble and forward-looking;
- **Dignified :** Contains meaning in the conditions of people's lives nation and state that is based on noble moral and cultural values, prioritizing ethics, morals and norms community religion;

• **PROFESSIONAL** : Contains the meaning of implementation

Good governance (Participatory, Accountable, Transparent and Efficient) and clean (free of Corruption, Collusion and Nepotism).

To realize the Vision of Sukoharjo Regency 2016-2021, it is described in 5 (five) missions which serve as guidelines for development of Sukoharjo Regency:

1. Strengthen clean, effective and good governance
 - Transparent.
 - Realizing quality government administration;
 - Increase Public Participation in the Collection Process
 - Public policy.
2. Improving the Quality of Human and Community Life.
 - Improving the quality of public services;
 - Reducing inequality between economic groups in society;
 - Realizing the fulfillment of basic public services.
3. Strengthening Regional Economic Independence by Mobilizing Regional Leading Sector
 - Realizing Food Security
 - Realizing the Conservation of Natural Resources and the Environment and Disaster Management;
 - Realizing a Strengthening Investment Climate;
 - Realizing Accelerated Economic Growth.
4. Improving the Quality of Religious and Community Life.
 - Realizing the facilitation of Harmony in Religious Life
 - Realizing the preservation of regional arts and culture as local identity.
5. Creating a peaceful, safe and dynamic community condition
 - Create a conducive environment for participation community in implementing development;

Based on the vision above, the *Smart City* Regency vision

Sukoharjo is: "**THE REALIZATION OF SMART CITY IN THE DISTRICT SUKOHARJO FOR A MORE PROSPEROUS, ADVANCED, SUKOHARJO AND Dignified**"

This vision is formed through 3 (three) main visions, namely: aspects environmental, economic and social through the 6 pillars of a smart city (*Smart City*)

It is hoped that the people's dreams for Sukoharjo Regency can be achieved materialized. The concept of smart city management is believed by many parties, currently, as an answer to various problems in cities Indonesia.

City community services are increasingly complex Smart city management is carried out by integrating all sectors which exist to overcome various city problems such as availability of electricity, clean water, floods, traffic jams, etc. Para *Smart City* initiators emphasize that all population problems can be resolved through integration in all sectors, especially with the help of information technology infrastructure.

In order to realize the Regency's *Smart City* Vision Sukoharjo which has been determined above, then the Mission is determined *Smart City* Sukoharjo Regency as follows:

1. Strengthen district governance and administration
A clean Sukoharjo is effective and transparent.
2. Increasing regional competitiveness by restructuring the face of the city, structuring village potential and marketing regional tourism.
3. Strengthening regional economic independence by mobilizing sectors regional excellence and increasing community *financial literacy* .
4. Create a comfortable and smart living environment for improve people's quality of life.
5. Create a productive, communicative and community ecosystem interactive with high digital literacy.
6. Realizing good, responsible and environmental governance sustainable.

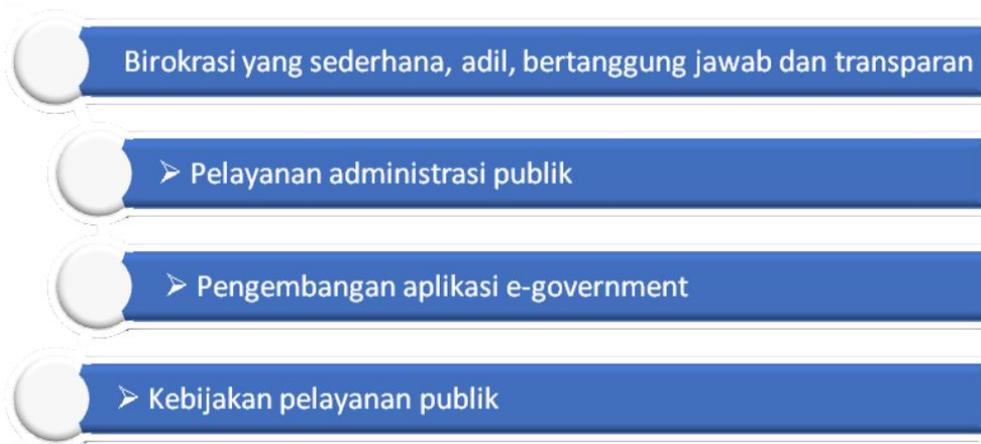
The mission description above can be explained as follows:

Mission 1: Strengthen clean, effective and transparent governance and administration of Sukoharjo Regency.

In realizing cleanliness, effectiveness and transparency, the governance of Sukoharjo Regency is utilized Information and communication technology as an enabler is expected to be able to provide acceleration in the achievement process. Elements of smart government, namely governance and government administration. With

prioritizing 3 main pillars, namely public service infrastructure, bureaucracy and public policy is the main condition for realizing this mission.

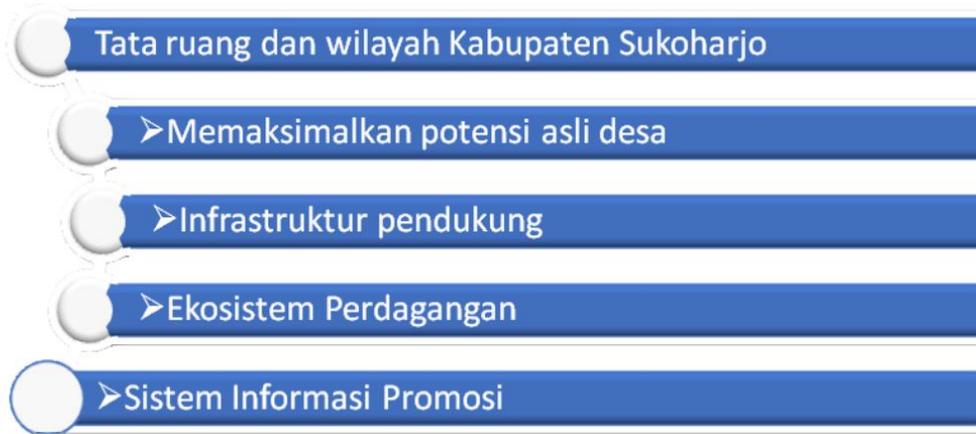
In an effort to achieve this first mission was formulated integrated planning in the following achievement steps:



Mission 2: Increasing regional competitiveness by restructuring the face of the city, structuring village potential and marketing regional tourism.

The manifestation of *smart branding* is increased innovation in the selling power and competitiveness of Sukoharjo Regency by organizing a beautiful and neat city face, maximizing the original potential of each village and arrange it so that it has selling power. After the face of the city already beautiful and the village is well-organized, a *brand value* for Sukoharjo Regency is formed which is ready to be marketed to the world. Increasing *brand value* begins with utilizing local superior potential and attractive promotions business people and investors in helping accelerate development Sukoharjo Regency.

To achieve this *smart branding* mission was formulated integrated planning in the following achievement steps:



Mission 3: Strengthen regional economic independence by mobilizing regional superior sectors and increasing community *financial literacy* .

The realization of a *smart economy* in a region will be able to create an economic ecosystem that is able to adapt quickly meet the challenges of the information age. In achieving Smart The economy in Sukoharjo Regency which is the main concern is the formation of an industrial ecosystem based on original superior products as well supported by a financial transaction ecosystem for economic independence.

In an effort to achieve a *smart economy* , this was formulated integrated planning in the following achievement steps:



Mission 4: Create a comfortable and comfortable living environment smart to improve people's quality of life.

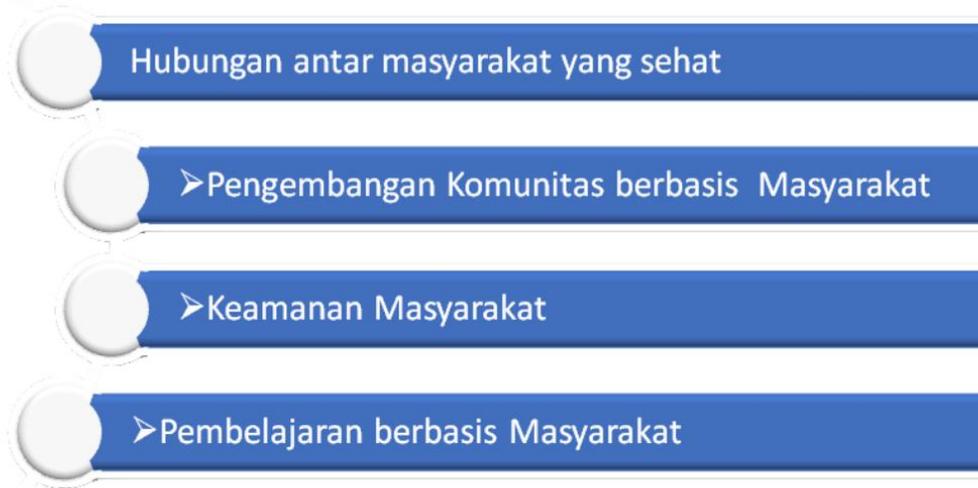
To create a decent living environment

The three elements used as benchmarks include life harmony, healthy life and supported by means of transportation for supports the mobility of people and goods. In order to make it happen Sukoharjo Regency is a *smart living area*, the local government is always trying meet the needs for these elements. Efforts to This realization is stated in the plan as follows:



Mission 5: Create a productive, communicative and interactive community ecosystem with high *digital literacy* .

The *smart* city component emphasizes humans as the main element in an area with the existence of a socio-technical ecosystem that shows the movement between physical and virtual dimensions that is more closely intertwined. intense. This causes social interaction to occur without boundaries and no barriers between people and the use of technology information. There are efforts to make Sukoharjo Regency a *Smart society* is contained in integrated planning as follows:



Mission 6: Realizing good, responsible environmental governance responsible and sustainable.

To create a prosperous, prosperous society

Safe funds require environmental governance or a *smart environment* emphasizes three important aspects, namely environmental protection, waste management and sanitation and energy management.

The efforts to make Sukoharjo Regency a *smart environment* are contained in the integrated planning as follows:



B.1. SMART CITY TARGETS SUKOHARJO DISTRICT

Smart City Sukoharjo Regency aims to realizing the vision of long-term development of Sukoharjo Regency long and medium term with implementation information and communication technology. *The Smart City* targets are: more details are as follows:

1. The realization of a simple, fair and responsible bureaucracy and transparent;
2. The realization of effective and public administration services efficient;
3. Development of *e-government applications*;
4. Issuance of fair and responsible public service policies answer;
5. Realization of the spatial and regional planning of Sukoharjo Regency;
6. Maximizing the village's original potential for regional excellence;
7. Availability of adequate supporting infrastructure;
8. Creation of a trading ecosystem that is marketable and effective competitive;
9. Development of a Promotional Information System to support regional *brand value* marketing ;
10. Creation of an industrial ecosystem;
11. Community economic empowerment;
12. Reducing the unemployment rate due to the availability of jobs Work;
13. Trading using *information technology (e-commerce)*;
14. Regional Financial Management based on information technology;
15. Realization of harmonious Regional Spatial Planning;
16. Availability of adequate health infrastructure; 17. Availability of adequate transportation facilities; 18. Development of Transportation Information Systems;
19. Development of an Integrated Health Information System;
20. Creation of healthy relationships between communities;
21. Community-based community development;
22. Creation of public security;
23. Community-based learning;
24. Realization of Public Green Open Space; 25. Availability of waste management;
26. Availability of sanitation management; And
27. Independent energy management.

C. SMART CITY DEVELOPMENT STRATEGY SUKOHARJO DISTRICT

C.1. SMART GOVERNMENT

The development strategy on the *Smart Governance* pillar aims to realize effective and bureaucratic management efficient and running quality, transparent, public services accountable and free of corruption. This goal is aligned with the Priority Agenda Regency Sukoharjo namely **Making it happen maintenance quality government. Strategies** implemented to make it happen is:

1. Improve the quality of government governance.

To implement this strategy, supporting policies have been created, namely:

Structuring organizational needs and management based on tasks principles, functions and workload that are effective, efficient, accountable and do not overlap. Strengthening performance accountability, programs evaluation of regional performance and capacity building, programs improving the quality of public services.

2. Improve the public service system.

To implement this strategy, policies have been created supports, namely: Improving the quality of human resources and IT-based public services, as a concrete form of policy Currently, the Sukoharjo Regency Government has launched two programs improving the quality of public services, development programs information technology applications.

C.2. SMART BRANDING

Development strategy on smart branding elements aims to increase the district's sales innovation and competitiveness Sukoharjo by arranging a beautiful and neat city face, maximizing the original potential of each village and organizing it so that have selling power. Once the face of the city is beautiful and the village has been organized, *the brand value* of Sukoharjo Regency will be ready marketed to the world.

This goal is aligned with the District's Priority Agenda Sukoharjo , **namely Strengthening Regional Economic Independence by Mobilizing** Regional Leading Sectors by Realizing It Food Security, Realizing Natural Resource Conservation, Environment and Disaster Management, Realizing Strengthening Investment Climate and Realizing Accelerated Economic Growth. The strategy used to make this happen is:

1. Develop a spatial and regional planning system for the Regency Sukoharjo

To implement this strategy, supporting policies have been created, namely:

- beautiful and neat arrangement of the city face;
- strategic area development; And
- structuring the rural system.

2. Improve cooperative institutions, MSMEs and creative industries village.

To implement this strategy, policies have been created supporters are:

- Exploring and developing the village's original potential for regional excellence;
- Develop village creative industries and MSMEs; And
- Developing an information system for promoting MSME products and village creative industry.

3. Provide adequate supporting infrastructure.

4. Develop a sales and sales ecosystem competitive.

5. Development of a Promotional Information System to support regional *brand value* marketing .

C.3. SMART ECONOMY

The development strategy in the *smart economy* dimension aims to create an industrial ecosystem based on original superior products and supported by a financial transaction ecosystem for independence economy.

This goal is aligned with the District's Priority Agenda

Sukoharjo , **namely Strengthening Regional Economic Independence by**

Mobilizing Regional Leading Sectors by Realizing It

Food Security, Realizing Natural Resource Conservation,

Environment and Disaster Management, Realizing Strengthening

Investment Climate and Realizing Accelerated Economic Growth.

The strategy used to make this happen is:

1. Creating an industrial ecosystem.

To implement this strategy, policies have been created

supporters are:

• Providing ease of investment with improved climate

investment and investment realization;

• Creating a program for preparing potential resources, suggestions and

industrial ecosystem infrastructure;

• Increasing the quality and productivity of human resources;

• Increased promotion and investment cooperation.

2. Community economic empowerment.

To implement this strategy, policies have been created

supporters are:

• Exploring the original potential of regions based on creative villages; And

• Creative village-based community economic development.

3. Trading using information technology (e-commerce).

4. Regional financial management based on information technology.

C.4. SMART LIVING

The development strategy in the *smart living* dimension aims

to realize Sukoharjo Regency as a healthy region

and drug free, availability of infrastructure, facilities and utilities

adequate.

This goal is aligned with the District's Priority Agenda

Sukoharjo , **namely Improving the Quality of Human Life and**

Society by improving the quality of public services and

Reducing inequality between economic groups in society and

Realizing the fulfillment of basic public services.

The strategy used to make this happen is:

1. Improve orderly regional spatial planning and space fulfillment green open to the public.

2. Increase access and quality of health services for the whole society.

To implement this strategy, policies have been created supporters are:

- Increase the professionalism of health service management namely through fostering basic health efforts and services pharmaceuticals and medical devices, community nutrition improvement programs, infectious disease control program, coaching program surveillance, immunization, quarantine and eye health as well improving maternal, infant, child, adolescent and health services elderly;
- Increasing access to health services through improving quality health services through the use of information technology;
- Development of an Integrated Health Information System; And
- Increasing public awareness about health through empowerment public, health environment, housing and settlement development.

3. Improve access and quality of transportation services for the whole society.

To implement this strategy, policies have been created supporters are:

- Increased access to transportation services;
- Optimizing road management;
- Effectiveness of traffic management by utilizing technology information;
- Development of Transportation Information Systems; And
- Development of equitable city facilities and infrastructure.

4. Increase access and quality of educational services for the whole society.

To implement this strategy, policies have been created supporters are:

- Increase access and quality of appropriate educational services national education standards;

- Increase access and quality of educational services equitable, cheap and affordable; And
- Development of an Integrated Education Information System.

C.5. SMART SOCIETY

The development strategy in the *smart society* dimension aims to realize Sukoharjo Regency as a region where the people are cultured and have legal awareness, creating peace and public order so that society is safe and prosperous.

This goal is aligned with the District's Priority Agenda Sukoharjo, **namely Creating a Peaceful, Safe and Dynamic** Community Condition by Creating a conducive environment for community participation in development implementation. The strategy used to make this happen is:

1. Creating healthy relationships between communities.

To implement this strategy, policies have been created and supporters are:

- Increase harmony, cooperation and community participation through RT, Dasawisma, Karangtaruna, PKK, Ronda and other activities etc.

2. Provide support for community development community based.

To implement this strategy, policies have been created and supporters are:

- Facilitate youth activities, interest and hobby communities as well as sport; And
- Improvement of sports facilities and infrastructure.

3. Realizing community security.

To implement this strategy, policies have been created supporters are:

- Activate a community-based security system;
- Increase community-based security supervision;
- Increasing the integration of community organizations and government areas in creating order, comfort and public security; And
- National insight development program.

4. Community-based learning.

5. Development of Community Security Information Systems

6. Increased disaster mitigation

To implement this strategy, policies have been created supporters are:

- Development of an early warning system at disaster-prone points; And
- Improving the quality of the natural disaster management system.

7. Promote local arts and culture

To implement this strategy, policies have been created supporters are:

- Facilitate the development of local arts and culture;
- Management of cultural diversity; And
- Development of cultural values.

C.6. SMART ENVIRONMENT

Development strategy in this *smart environment* dimension aims to realize Sukoharjo Regency as a region whose society is prosperous, prosperous and safe emphasizes three important aspects, namely environmental protection, waste management and sanitation and energy management.

This goal is aligned with the District's Priority Agenda Sukoharjo , **namely Creating a Peaceful, Safe Community Condition and Dynamic** by creating a conducive environment for community participation in development implementation.

The strategy used to make this happen is:

1. Provide public and private green open spaces in accordance with RTRW.

To implement this strategy, supporting policies have been created, namely:

- Land rehabilitation; And
- Management of green open spaces.

2. Improve modern waste management and sustainable.

To implement this strategy, policies have been created supporters are:

- Development of waste management performance;
- Improving the quality of waste management infrastructure and facilities which is modern, effective and environmentally friendly; And
- Increasing the potential for independent waste management by public.

3. Independent energy management.
4. Reduce environmental pollution.

To implement this strategy, policies have been created supporters are:

- Environmental pollution and destruction control program.

D. SMART CITY ACTION PLAN FOR SUKOHARJO DISTRICT

D.1. SMART POLICY AND INSTITUTIONAL DEVELOPMENT

SUKOHARJO DISTRICT CITY

In order to realize a *smart city*, Sukoharjo Regency will prepare Regulations and Planning Documents, including:

1. *Smart City Master Plan* in Sukoharjo Regency 2018-2022.
2. Regent's Regulation on the *Smart City Master Plan* in the Regency Sukoharjo 2018-2022.
3. Regent's Regulation on Software/Application Interoperability Sukoharjo Regency Government.
4. Regent's regulation regarding the management of one data and one map.
5. Regent's Regulation on Openness of Public Information and Data management.
6. Review of the Regency's RTRW (Regional Spatial Plan). Sukoharjo.
7. Strategic Environmental Assessment (KLHS) Document.

8. RP3KP document (Development and Development Plan Housing and Settlement Areas).

All the regulations mentioned above are the legal basis for implementing *smart cities* in Sukoharjo Regency. Indonesia Until now there are no regulations regarding personal data protection, so it is deemed important to regulate internally regarding securing available personal data such as data utilization population, personnel data, data on the people who submitted the application permits and so on. Apart from that, it is also necessary to regulate the mechanism, SOP regarding procedures for utilizing data or sharing data. Institutions developed to support *smart* implementation *cities in* Sukoharjo Regency are:

1. Establishment of a *smart* city council for Sukoharjo Regency, which has main duties and functions as director of planning, implementation, monitoring and evaluating *smart cities* in Sukoharjo Regency.
2. Formation of a *smart city* implementation team in Sukoharjo Regency, which has the main duties and functions as technical support implementation of *smart city* in Sukoharjo Regency.

D.2. SMART SUPPORTING INFRASTRUCTURE DEVELOPMENT PLAN CITY

In implementing *smart city* in the Regency Sukoharjo, it is planned to develop supporting infrastructure *smart city* in Sukoharjo Regency, namely:

1. Development of the Sukoharjo Regency Data Center (DC).
2. Highway *Traffic Light* Management Information System .
3. CCTV Camera Monitoring and Control System.
4. Sukoharjo Command *Center*.
5. Sukoharjo *smart city Help Desk*.
6. *Early Warning System* for Disaster Resilient Villages.
7. Addition of public *WiFi* access in green open spaces.

ICT infrastructure to be built by the Regency Government Sukoharjo through the District Communication and Information Service Sukoharjodi is designed as an integration center for all information systems regional apparatus. *Smart city* development in the Regency Sukoharjo requires reliable and reliable ICT infrastructure. Moment

This is the Communication and Information Service of Sukoharjo Regency have human resources with ICT competence that meet standards, so that *smart city* operations in Sukoharjo Regency related to *electronification* or online-based systems will be technically supported by the Communications and Informatics Service of Sukoharjo Regency, temporary business processes continue to run in each device organization area.

D.3. APPLICATION AND SOFTWARE DEVELOPMENT PLAN

SMART CITY SUPPORTERS .

Smart city supporting applications and software are prioritized to support planning, implementation and monitoring of development. Applications and software developed include:

1. Portalsmart *city* in Sukoharjo Regency.

This application aims to obtain information throughout the application developed by the Sukoharjo Regency Government.

2. Sukoharjo mobile.

Public service application in the Sukoharjo Regency Government based on Android, making it easier for the public access the services they need.

3. *Application programming interface* (API) Sukoharjo.

This application is an application connector that makes data The data held can be communicated between applications.

4. Data Warehouse Sukoharjo

as the main *repository* which is the database for data mining and data *analytics* for the Sukoharjo Regency Government.

5. E-Citizen.

The eWarga application is a medium for citizen interaction with the Village Head, Subdistrict Head and Sukoharjo Regency Government.

6. Suket.

This application supports various types of mail services information in the Village.

7. *Panic Button*

Application to convey car-based emergency information with *segmented users*, namely all RT heads within the Sukoharjo Regency Government.

8. Sukoharjo one data for all services

The application uses one data as a key, namely the Master Number Population to obtain all public services integrated. So by using this application, people can get all the public services he wants.

All systems built above will be connected to Sukoharjo Regency Government backbone and the data will enter the Sukoharjo Regency Government's data *warehouse* and API, then important information can be accessed and displayed in real time via the Sukoharjo Command *Center*.

D.4. SMART CITY DISTRICT LITERACY STRENGTHENING PLAN SUKOHARJO

Smart City literacy is carried out through socialization and increasing citizens' awareness *through various media*, such as information through mass media, socialization through city government social media and online communities, as well as through sub-district heads, village heads and Chairman of the neighborhood.

Activities carried out include:

1. Outreach to sub-district heads, village heads and RT heads
2. Internalization and sharpening of programs and related activities directly with *smart city* between Regional Apparatus. internalisation through FGD (*focus group discussion*) between regional apparatus nodes which have the same main tasks and functions.
3. Outreach to Community Information Groups (KIM).
4. Socialization through traditional media such as wayang kulit.
5. Publication through mass media (newspapers, television and radio)
6. Publication via social media (Facebook, Twitter and Instagram)
7. Seminars through colleges and schools
8. Installation of billboards and banners

E. ROAD MAP FOR *SMART CITY* DEVELOPMENT OF SUKOHARJO DISTRICT

Stages of the *Smart City* Program in Sukoharjo Regency Short Term

Stage No		<i>Smart City</i> Programs and Products
PERIOD SHORT (1-3 YEARS)	1	<i>Smart City Master Plan</i> in Sukoharjo Regency 2018-2022.
	2	Regent's Regulations regarding the <i>Smart City Master Plan</i> in Sukoharjo Regency for 2018-2022.
	3	Formation of the <i>Smart City Council</i> for Sukoharjo Regency
	4	Establishment of a <i>Smart City</i> Implementation Team in the Regency Sukoharjo
	5	Regent's Regulations on <i>Interoperability</i> of Sukoharjo Regency Government software/applications.
	6	Regent's Regulations regarding data management and one map.
	7	Regent's Regulations on Information Disclosure Public and Data management.
	8	Development District Data Center _ Sukoharjo
	9	Sukoharjo Command <i>Center</i>
	10	<i>Smart City</i> Portals in Sukoharjo Regency
	11	Certificates (SUKET)
	12	Sukoharjo mobile
	13	Socialization to sub-district heads, village heads and RT heads
	14	FGD (<i>focus group discussions</i>) between device nodes areas that have similar main tasks and functions
	15	Outreach to Community Information Groups (KIM).
	16	Socialization through traditional media such as wayang skin.
	17	Publication through mass media (newspapers, television and radio)
	18	Publication through mass media (newspapers, television and radio)

	19	Seminars through colleges and schools
	20	Installation of billboards and banners

Stages of the *Smart City* Program in Sukoharjo Regency Medium Term

Stage No		<i>Smart City</i> Programs and Products
PERIOD MEDIUM (1-5 YEARS)	1	Highway Traffic Light Management Information System
	2	CCTV Camera Monitoring and Control Systems
	3	<i>Early Warning System</i> for Disaster Resilient Villages
	4	<i>Help Desk Sukoharjo Smart City</i>
	5	Additions Public Wifi Access in Open Spaces Green
	6	<i>Panic Buttons</i>
	7	eCitizen
	8	<i>Application programming interface (API) Sukoharjo</i>
	9	Socialization through traditional media such as wayang skin.
	10	Publication through mass media (newspapers, television and radio)
	11	Publication through mass media (newspapers, television and radio)
	12	Seminars through colleges and schools
	13	Installation of billboards and banners

Long Term Stages of the *Smart City* Program in Sukoharjo Regency

Stage No		<i>Smart City</i> Programs and Products
PERIOD LONG (1-10 YEARS)	1	Review of the RTRW (Spatial Planning Plan Region) Sukoharjo Regency.
	2	Strategic Environmental Assessment (KLHS) documents.
	3	RP3KP Documents (Development Plan and Housing Development And Region Settlement).
	4	Sukoharjo one data for all services
	5	Data Warehouse Sukoharjo

	6	Socialization through traditional media such as wayang skin.
	7	Publication through mass media (newspapers, television and radio)
	8	Publication through mass media (newspapers, television and radio)

F. CLOSING

That is the *Smart City* Master Plan in Sukoharjo Regency prepared with the aim of being a guide for district development Sukoharjo towards *Smart City* from 2018 - 2022. *The Smart City road map period* in Sukoharjo is divided into 3 (three):

1. Short Term (1-3 Years)
2. Medium Term (1-5 Years)
3. Long Term (1-10 Years)

Stages of the *Smart City* Master Plan in Sukoharjo Regency following the timeline of the RPJD and RPJMD of Sukoharjo Regency. For The second stage has not yet developed a roadmap, and only sets direction policy, as a reference for determining the Sukoharjo Regency RPJMD for the year 2021-2025.

Finally, to all stakeholders of Sukoharjo Regency, especially the regional government apparatus of Sukoharjo Regency for make *this Smart City master plan* a reference in preparation activities in each regional apparatus.

REGENT SUKOHARJO,

signed

WARDOYO WIJAYA

