# BigData Tourism Solution, activating tourism for local governments

Platform Business Planning Office BigData Center





# Floating population, answer for various needs

Needs for Floating pop. Platform



- Amount and route of movement to optimize route of public transportation
- Weak spot detection to design route for disaster refuge
- Activation plan for small business
- Movement and staying area of tourist
- ✓ Weak-safety spot, where to install CCTV



✓ Where to open new store



Guiding customers route



Understanding right to store-keeper Finance

- Considering urban planning at household loans
- Designing shuttle bus route
- Security service spot
- Car-sharing service spot















Walking floating

Non-walking floating Floating population Platform

Day time resident

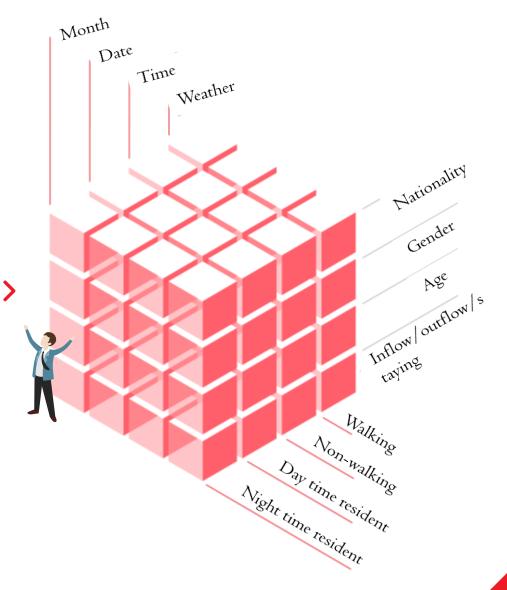
Night time resident

Logic of Floating population

# Detailed category of **diversifying non-resident population**

# **Framework** Resident population Day time Night time resident resident Base Station population Walking Non-walking population population

# **Analysis dimension of solutions**



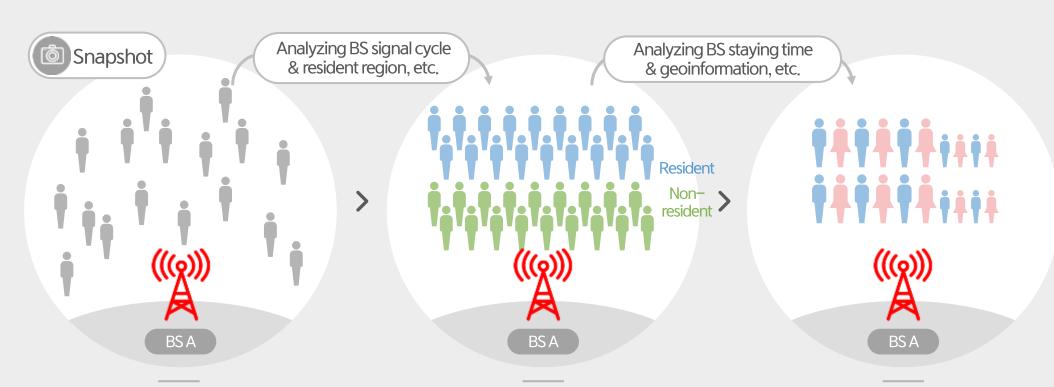
After dividing BS population, which is space data collected from Base station, into

# Resident & Non-resident, we generate 'Walking population'

BS population

Resident & Non-resident

Walking population



#### **BS** Population

Snapshot population
Total number of users in BS
De facto population

#### Resident population

Staying population in resident region(home/office)

#### Non-resident population

Floating, moving population in non-resident place

#### **Walking population**

Estimated population of walking in floating population

Assign anonymized walking population in 50x50m cell, and then convert

# reclassified personality of assigned population into goal-driven data

Data collection after anonymization

Walking population analysis based on 50 cell

Intensified analysis



# Differentiation points of KT Floating population



# Divide 24-hour moving patterns into day & night, mash-up various data, and

# life-styling the moving pattern



02



01



Total moving pattern of one day

Gather the home/office patterns by dividing data into day & night resident

03



Formalizing lifestyle, from *staying* and *moving* to *POI* and *commuting* 

04

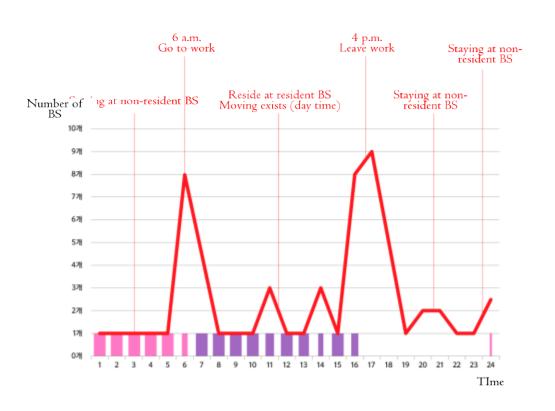


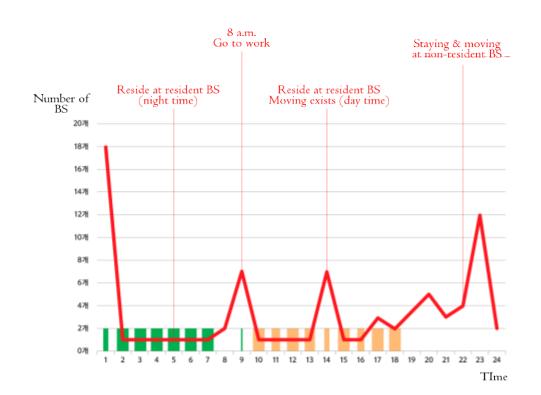
Mash-up IoT, credit card consumption patterns, SNS, public open data

# Categorize moving patterns, using Floating population Platform

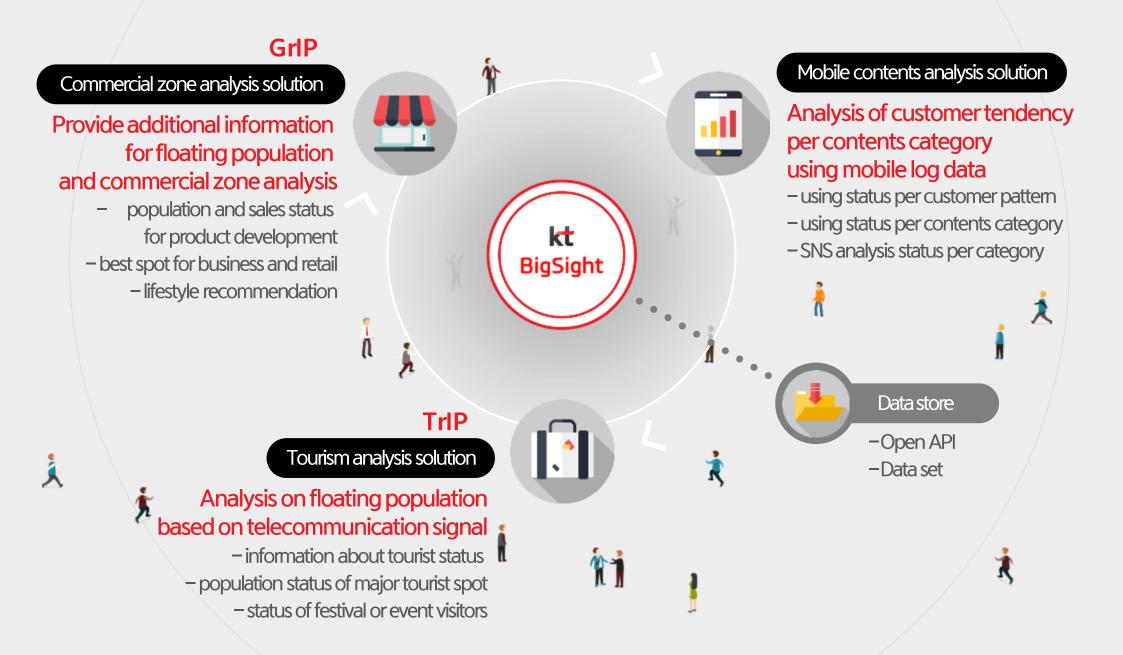
Classify job, leisure pattern by moving and staying frequency Expand into consumption behavior, linking with Point of Interest(POI)







# Floating population Platform creates Integrated-intelligence solution



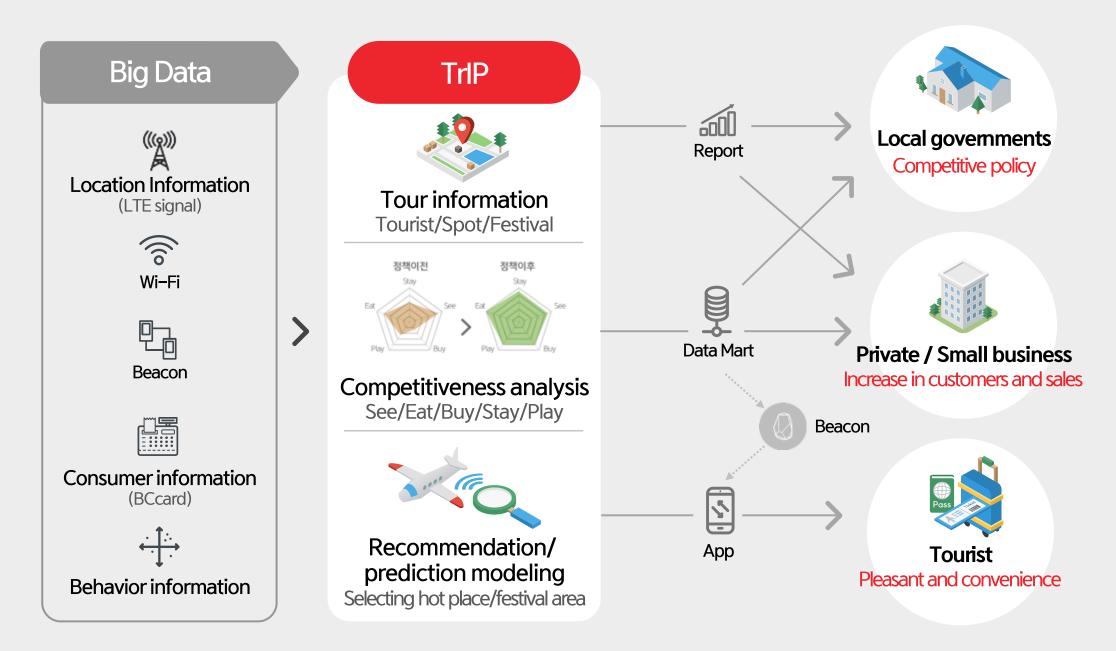
# Tourism Solution

TrIP



Tourism Solution (TrIP) analyzes the spot and behavior of tourists, and then provides

# the results to local governments, tourist industry and tourists



# reliable statistics, tourism consulting and loT service

#### **Statistics**

#### **Analysis report**

#### **Tourist Report**

- Visitor status by gender/age
- Visitor status per month/week
- Staying period and percent of revisit

#### **Tourist spot Report**

- Visitor status by tourist spot
- Popular tourist spot Top 10
   based on the number of visitors
- New tourist spot Top10

### **Festival Report**



### Tourism consulting

## 5 Tourist industry criteria

**See** Optimizing tourist spot, city tour

**Eat** Restaurant industry analysis

**Buy** Consumption analysis

**Stay** Accommodation, parking problem

Play Festival, experience contents



### loT marketing

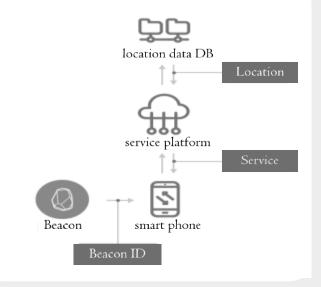
#### **Beacon service**

# Installation of beacon / building application

- Tourist routes recommendation
- Curation of restaurant and tourist spot

#### Tour/festival analysis report

Detail route of tourists

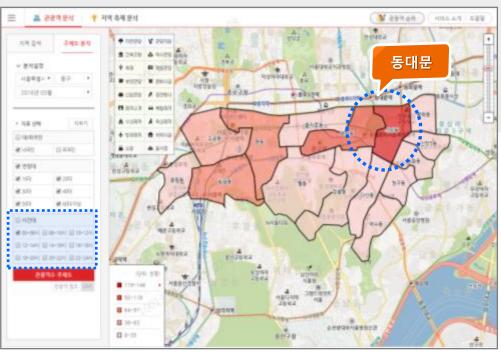


## Tourism Solution – usage

# can visually check various analysis and status, considering tourists' tendency

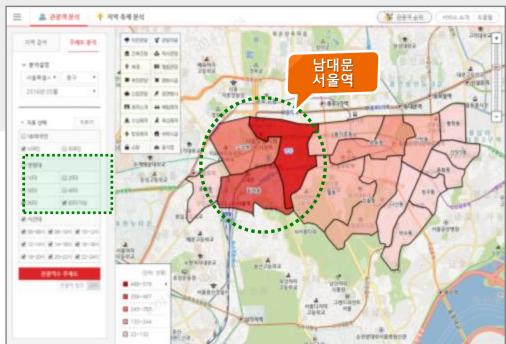


# Tourist analysis by time





# Tourist analysis by age



Q1 : In Seoul>jung-gu, where is the place that a lot of tourist go at night time?

- ▶ Most tourists are placed at '신당동(동대문)' at night(00~06 a.m.)
  - → Whole/retail sales are operated at night, and tourists are increasing around '동대문'
- ▶ We need to expand convenient facilities for night tourists around '동대문'

Q2: In Seoul>jung-gu, where is the place that a lot of elderly go?

- ▶ The elderly(over 50-60) are placed at '명동/회현동/소공동'
- → with '명동', old aged are increasing around '서울역 & 서울시청'
- ► We need to establish marketing strategy, targeting the elderly at relevant place

Thank you

