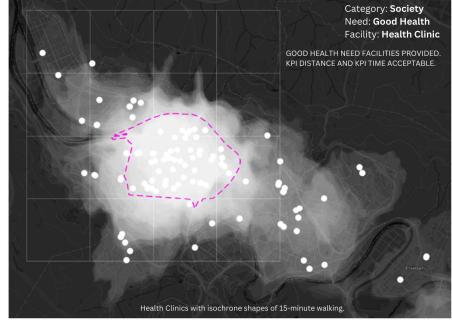
VISUAL MAP ANALYSIS

Knoxville, Pittsburgh Abando, Bilbao

The Neighbourhood Livability Framework

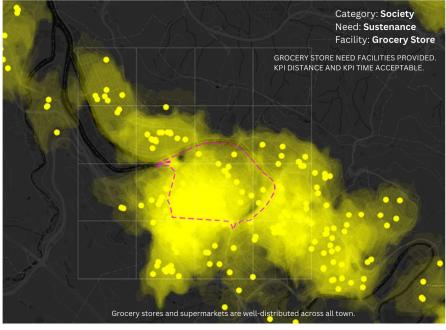
Category: Society
Need: Good Health
Facility: Health Clinic
GOOD HEALTH NEED DEFICIENT.
NEIGHBOURHOOD LONGITUDINAL
DISTANCE EXCEEDS 1 KM.
2 HEALTH CLINICS NOT PROVIDED.

Health Clinics with isochrone shapes of 15-minute walking.



Category: Society
Need: Sustenance
Facility: Grocery Store
SUSTENANCE NEED DEFICIENT.
4 GROCERY STORES NEEDED TO SATIFY KPI NEED.
SMALL GROCERY STORES TO SHELF MINIMAL
EVERYDAY USE ITEMS.

Grocery stores with isochrone shapes of 10-minute walking.

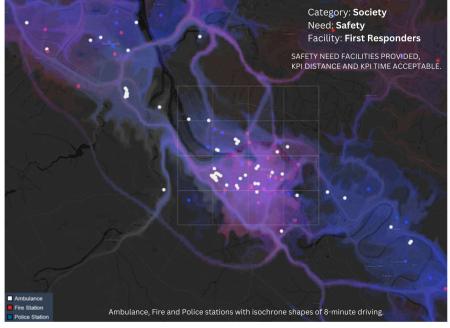


Category: Society
Need: Safety
Facility: First Responders

SAFETY NEED FACILITIES PROVIDED.
KPI DISTANCE AND
KPI TIME ACCEPTABLE

Armbdance
Fire Station
Policos Station

Ambulance, Fire and Police stations with isochrone shapes of 8-minute driving.

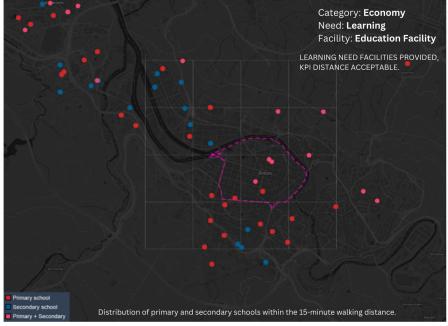


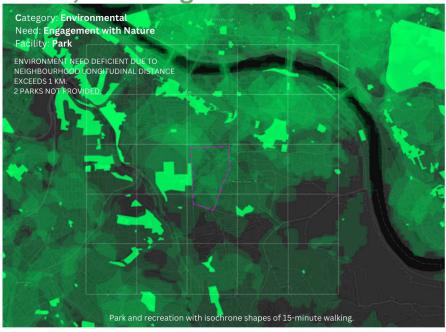
Category: Economy
Need: Learning
Facility: Education Facility

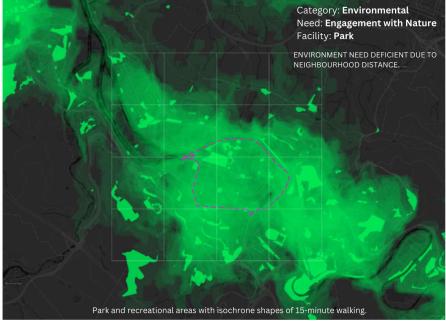
LEARNING NEED DEFICIENT FOR ELEMENTARY
AND MIDDLE SCHOOL NUMBER OF FACILITIES.
LEARNING NEED PROVIDED FOR HIGH SCHOOL
IN NUMBER OF FACILITIES PROVIDED KPI DISTANCE
AND KPI TIME.

Primary school

No primary or secondary schools within the 15-minute walking distance.







KNOXILLE, PITTSBURG

DEFICIENCIES IN ALL 3 CATEGORIES
5 RESOURCE NEEDS
SOCIETY
ECONOMY
ENVIRONMENTAL
29 RECOMMENDATIONS

ABANDO, BILBAO

DEFICIENCIES IN 2 CATEGORIES
2 RESOURCE NEEDS
ECONOMY
ENVIRONMENTAL
12 RECOMMENDATIONS

Authors John A. Ferri Hebe Garate Julen Fernandez Garcia Peter Saghegyi