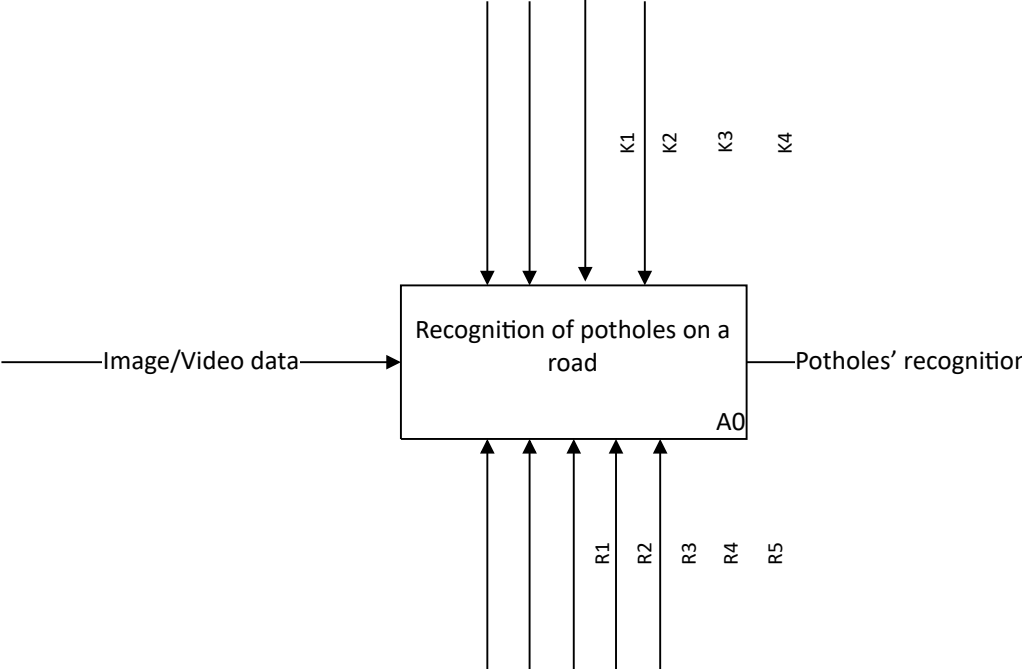K1 – Pothholes parameters: 0.09 sq.m.
K2 – Performance KPI (processing time, GPU/CPU)
K3 – Accuracy score
K4 – Requirements for data labling
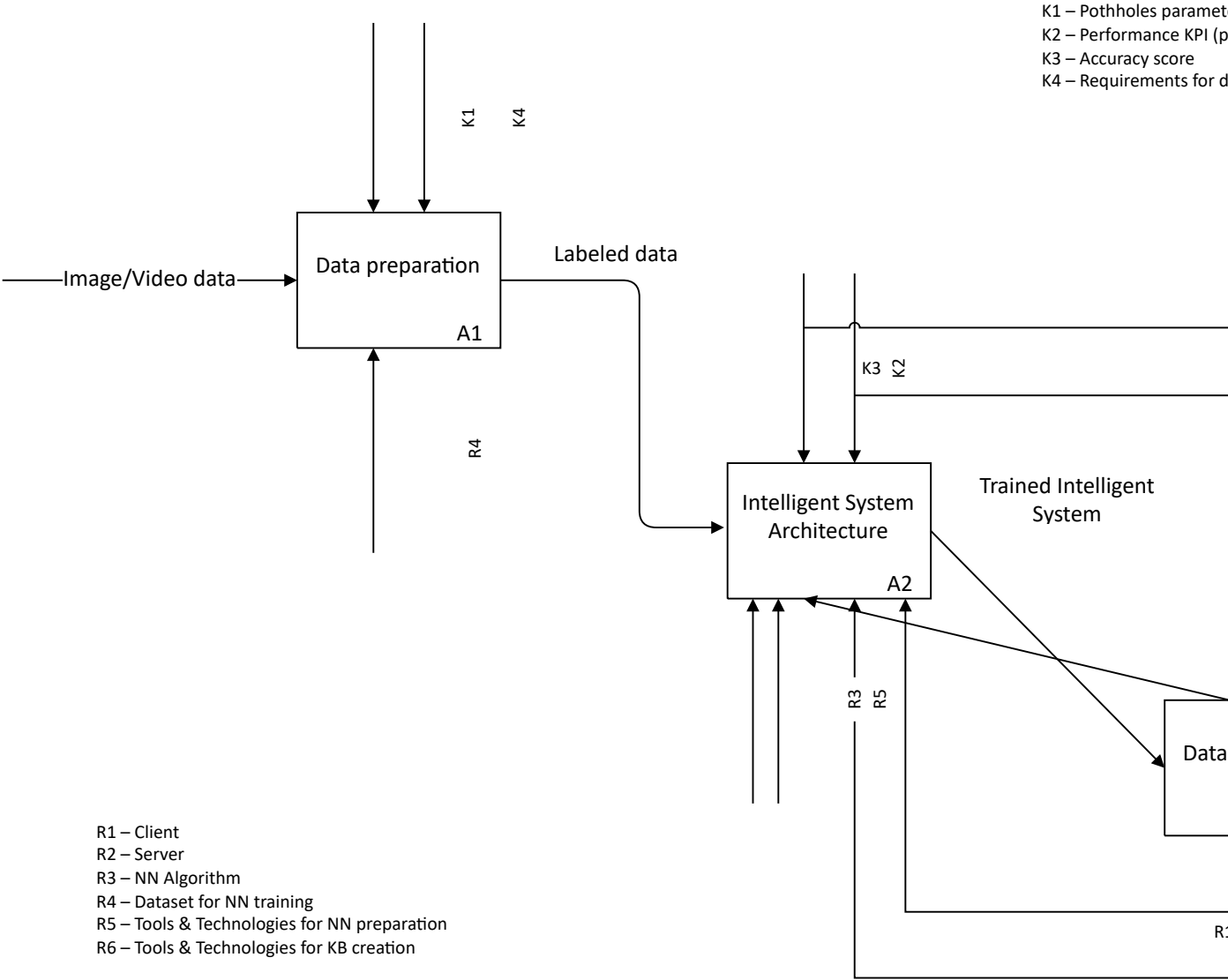
K1 K2 K3 K4

Image/Video data →

Recognition of potholes on a road

A0

Potholes' recognition →

R1 R2 R3 R4 R5

R1 – Client
R2 – Server
R3 – NN Algorithm
R4 – Dataset for NN training
R5 – Software for NN training
R6 – Team 1 (as a Resource)

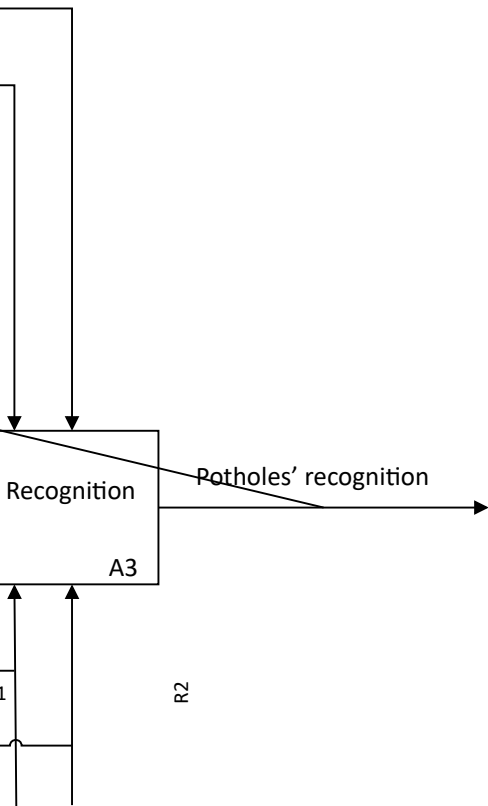| NODE:	A0	TITLE:	Recognition of potholes on a road

K1 – Pothholes paramet
K2 – Performance KPI (p
K3 – Accuracy score
K4 – Requirements for d

K1   K4

Image/Video data ——→ **Data preparation**

A1

Labeled data

R4

K3 K2

Intelligent System Architecture

A2

Trained Intelligent System

R3 R5

Data

R1 – Client
R2 – Server
R3 – NN Algorithm
R4 – Dataset for NN training
R5 – Tools & Technologies for NN preparation
R6 – Tools & Technologies for KB creation

R1

NODE: A0   TITLE: Recognition of potholes on a road

ers: 0.09 sq.m.
rocessing time, GPU/CPU)

ata labling

Recognition | Potholes' recognition

A3

R2

Image/Video data →

Data selecting

A1.1

Collected data

Data labeling

A1.2

R4

K4

R5

R4 – Dataset for NN training
R5 – Tools & Technologies for NN preparation
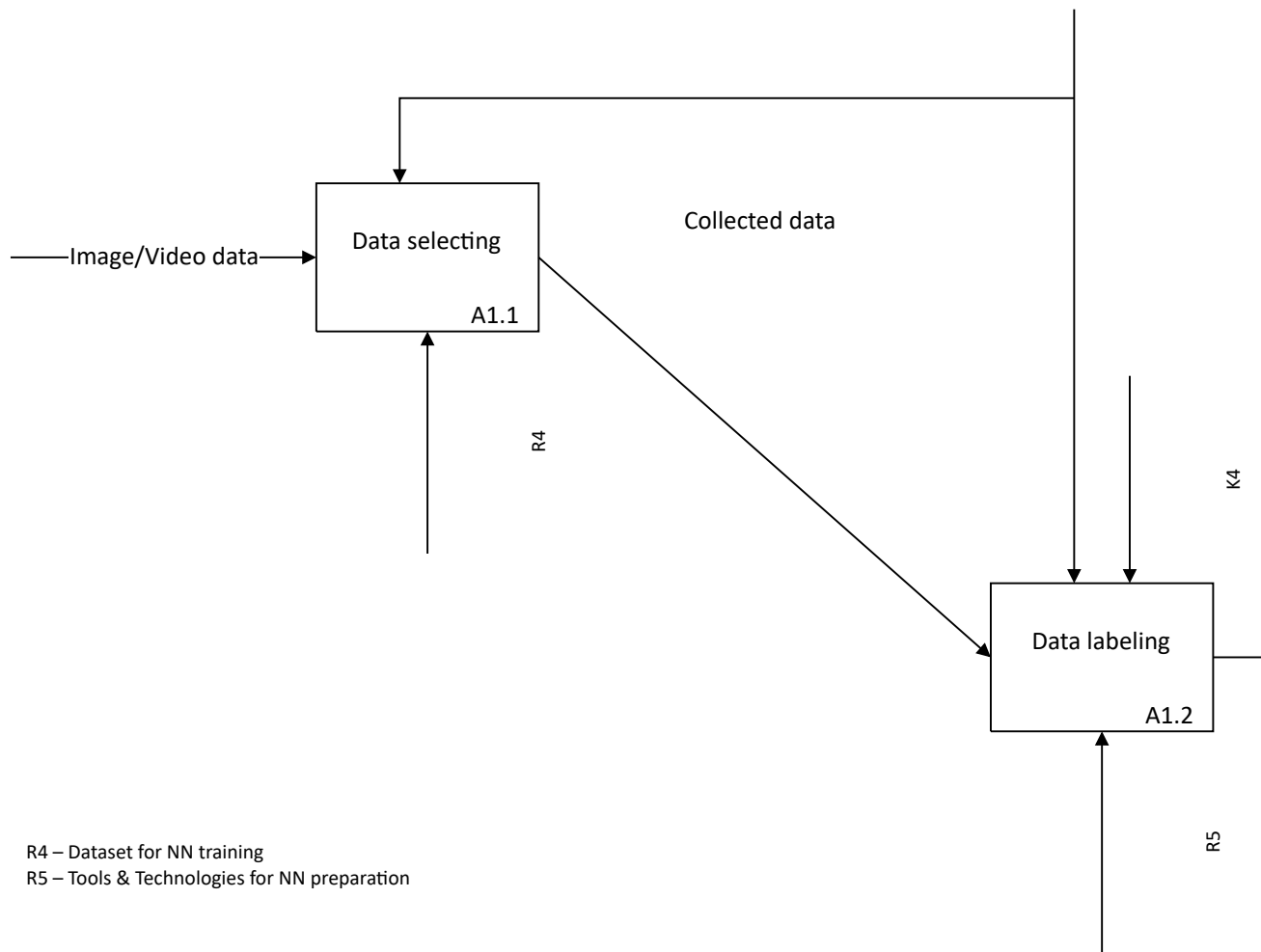
| NODE: | A1 | TITLE: | Data preparation | |

K1 – Pothholes parameters: 0.09 sq.m.
K4 – Requirements for data labling

K1

————Labeled data————▶

NO.:

K2 – Perform
K3 – Accurac

K3

Labeled data

KB Architecture

A2.1

Prepared KB

R6

NN Architecture

A2.2

Trained NN

K2

Client-Server
Architecture

A2.3

Prepared Client
Server System

R1

R2

N

R1 – Client
R2 – Server
R3 – NN Algorithm
R4 – Dataset for NN training
R5 – Tools & Technologies for NN preparation
R6 – Tools & Technologies for KB creation

NODE: A2   TITLE: Intelligent System Architecture
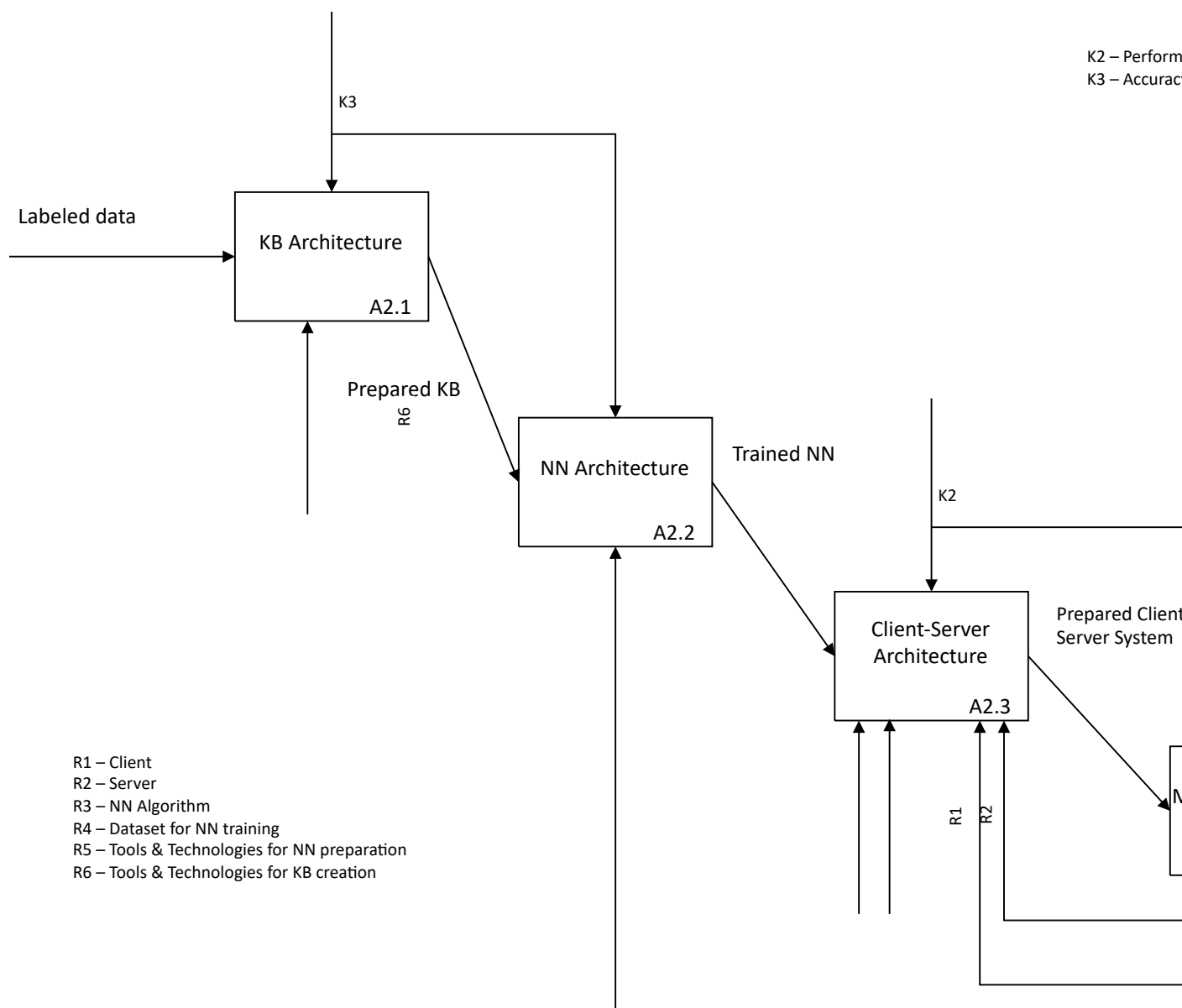
ance KPI (processing time, GPU/CPU)
y score

t-

Modules Integration | Trained Intelligent System

A2.4

R1 | R2 | R3