

Decision Framework Report

by engine@n3st.art

at 12/13/2024

Problem Statement

What is the problem?



Air Quality

Assessing air quality of a room

Description - Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Rationale - Indoor air quality is crucial for good health. Specially for individual with sensitive senses (astma, +++)

Stakeholders

Identified stakeholders for domain Air Quality, see [Stakeholders identification](#)



Occupants

100

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Nightmare - Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Dream - Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Address - Somewhere in Oslo

Contact Person - Firstname Lastname

Phone - +47 12345678

Email - firstname@lastname.person

Values

Identified quality criterias for domain Air Quality, see [Value identification](#)

Name	Scale Of Measure	Direction	Min	Max
TVOC	TVOC (Total volatile organic compounds) chart (24h) for a normal/average day.	HIGH	1	5
CO2	CO2 (Carbon dioxide) chart (24h) for a normal/average day.	HIGH	1	5
HUMIDITY	Humidity (water vapor in the air) chart (24h) for a normal/average day.	HIGH	1	5
TEMPERATURE	Temperature chart (24h) for a normal/average day.	HIGH	1	5

Quality criteria for domain Air Quality

Quantifications

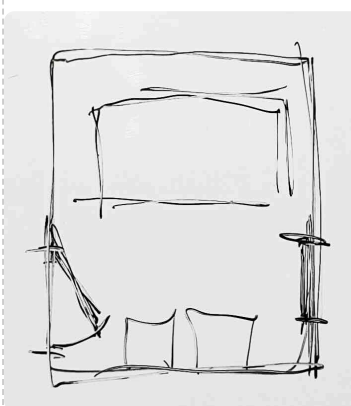
Quantified values for domain Air Quality to reflect stakeholders requirements and periorities, see [Value quantification](#)

Value	Weight	Tolerable	Goal	Wish
TVOC	25	3	4	5
CO2	25	3	4	5
HUMIDITY	25	3	4	5
TEMPERATURE	25	3	4	5

Quantified by stakeholder Occupants

Solutions

Identified solutions for domain Air Quality to be evaluated against values, see [Solution identification](#)



Room1

Description of Room1

Rationale - Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Address - Somewhere somewhere

Contact Person - Firstname Lastname

Phone - 12345678

Evaluators

Selected evaluators for domain Air Quality to pass judgement, see [Evaluator selection](#)



Janitor

b002@significant.no

Master of something, with x+ years of experience...

Name - Firstname Lastname

Address - Somewhere on earth

Phone - +47 12345678

Evaluations

Evaluation results for domain Air Quality, see [Evaluation form](#)

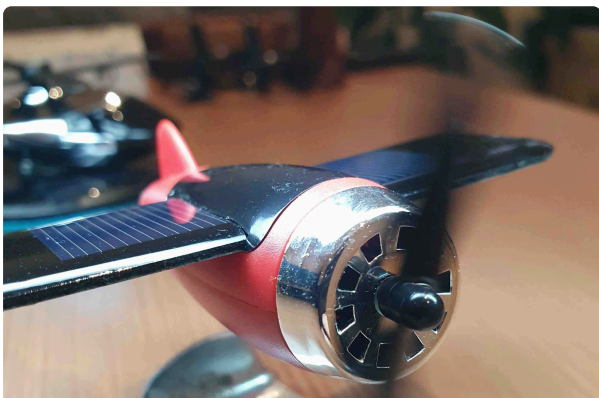
Values	min	tolerable	goal	wish	max	Room1
TVOC	1.00	3.00	4.00	5.00	5.00	3.00
CO2	1.00	3.00	4.00	5.00	5.00	5.00
HUMIDITY	1.00	3.00	4.00	5.00	5.00	5.00
TEMPERATURE	1.00	3.00	4.00	5.00	5.00	4.00

Evaluated by Janitor

Attachments by Janitor

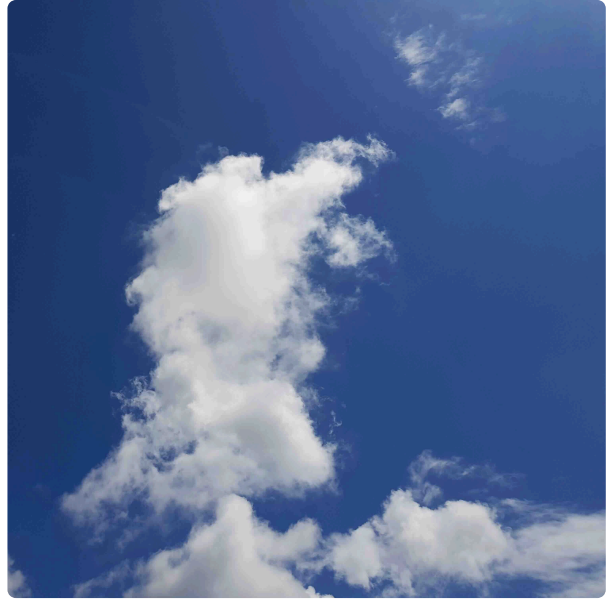
Room1

TVOC



Lorem Ipsum is simply dummy text of the printing and typesetting industry.

CO2



Lorem Ipsum is simply dummy text of the printing and typesetting industry.

HUMIDITY



Lorem Ipsum is simply dummy text of the printing and typesetting industry.

TEMPERATURE



Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Value Solution Matrix

Computed Value-Solution Matrix for domain Air Quality, see [Value Solution Matrix](#)

Values	min	tolerable	goal	wish	max	Room1
TVOC	6.25	18.75	25.00	31.25	31.25	18.75
CO2	6.25	18.75	25.00	31.25	31.25	31.25
HUMIDITY	6.25	18.75	25.00	31.25	31.25	31.25
TEMPERATURE	6.25	18.75	25.00	31.25	31.25	25.00
Total Score	25.00	75.00	100.00	125.00	125.00	106.25

Value score - driven from

valueScore =
adjustedWeight*normalized
Score

adjustedWeight =
sum(stkWeigth*qntWeight)

normalizedScore =
evaluation/(vDirection*vRan
ge)

vRange = abs(vMax-vMin)

vDirection = low = -1, high =
1

evaluation = evaluator score
for given (s,v) pair

Solution score - driven from

solutionScore =
sum(valueScore)

Color coding - satisfiability check

RED - Don't satisfy tolerable
trashhold

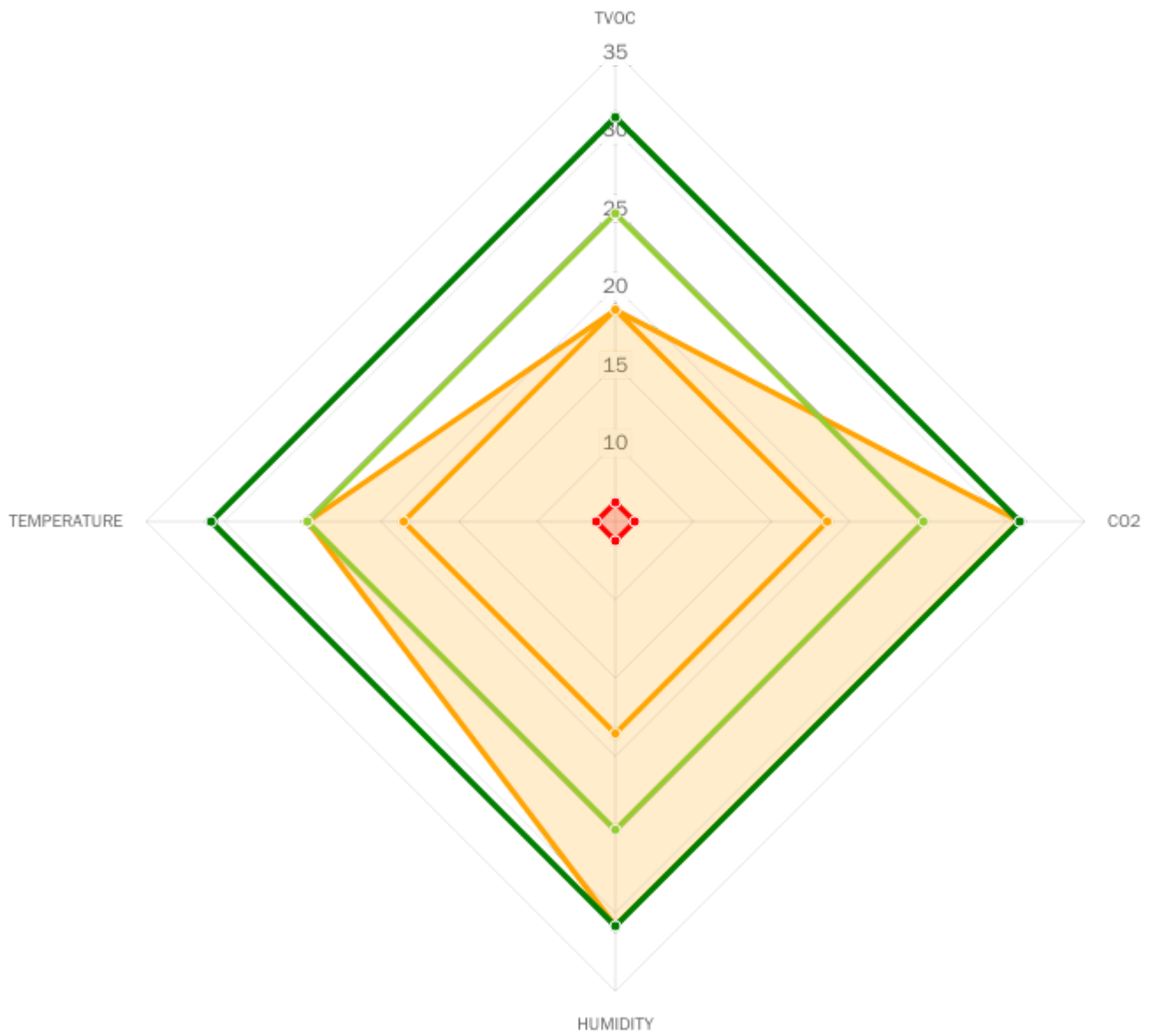
ORANGE - Don't satisfy goal
trashhold

YELLOW - Don't satisfy wish
trashhold

GREEN - Wish trashhold is
satisfied

Summary

min tolerable goal wish max Room1



Based on Janitor's evaluation

Acceptable solutions

Room1 # 106.25