



Qside: Act Now

Team members: Ritik Jain, Ritin Kalidindi, Naamna Modi, Gabriella Stickney

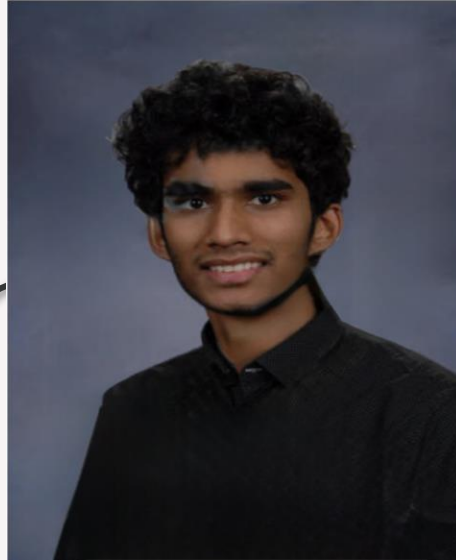
Community partners: Jude Higdon, Carlos Alvarez, Tyrone Bass

Meet the team!



Ritik Jain

Major: Data Science,
College of Natural
Science



Ritin Kalidindi

Major: Data Science,
College of Natural
Science



Naamna Modi

Major:
Computational Data
Science, College of
Engineering



Gabriella Stickney

Major:
Computational Data
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Engineering

The QSIDE Institute



Also known as, the Institute of Quantitative Study of Inclusion, Diversity, and Equity



Established as a **501(c)(3)** nonprofit in 2019



Focus areas include education equity, diversity & inclusion in arts/media, criminal justice, environmental justice, health equity, human trafficking, and more



QSIDE strives to use data science and mathematical modeling to address social justice issues



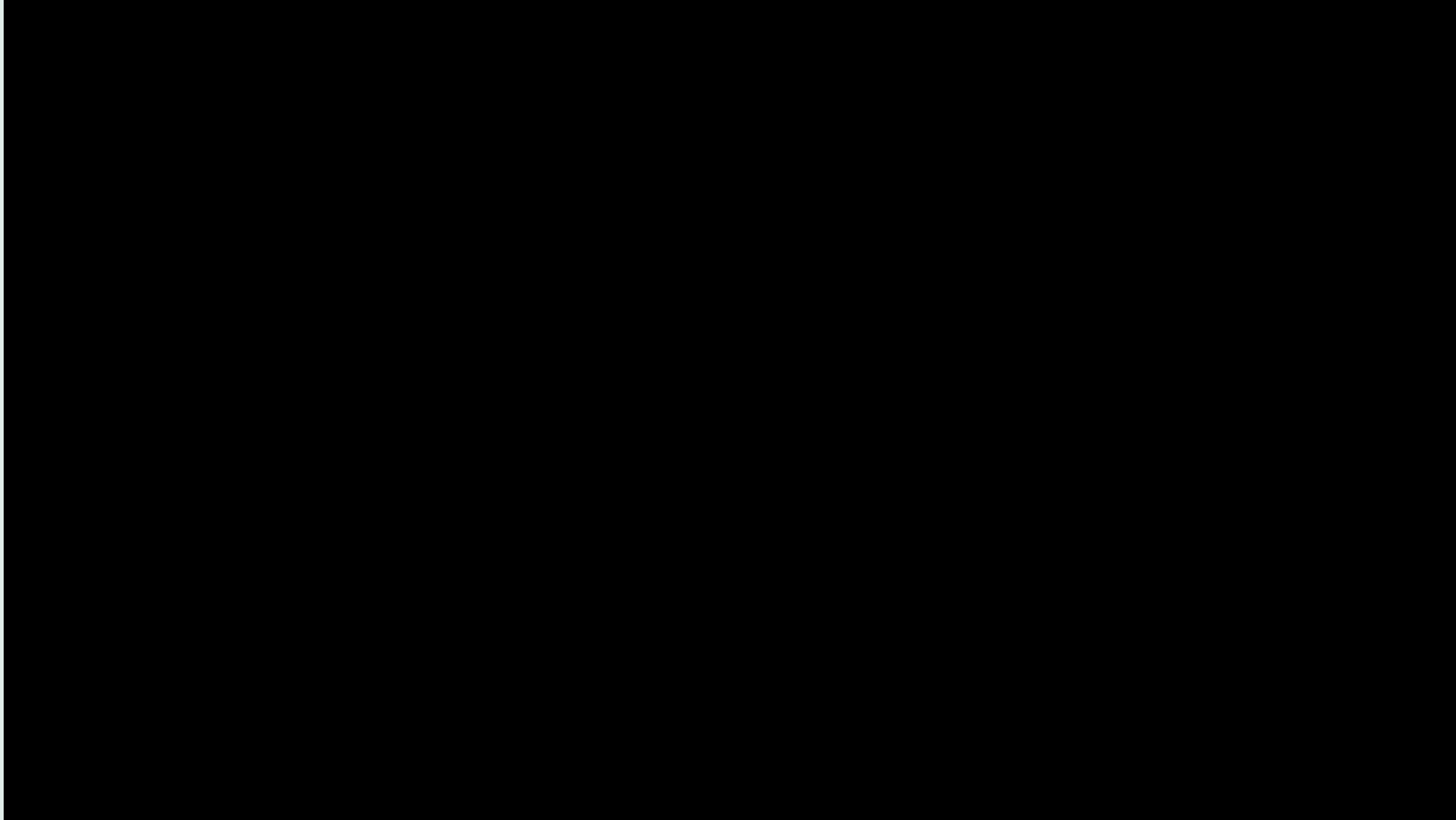
Investigate patterns and causes of decreased student presence in schools





What is Chronic
Absenteeism?

Chronic Absenteeism



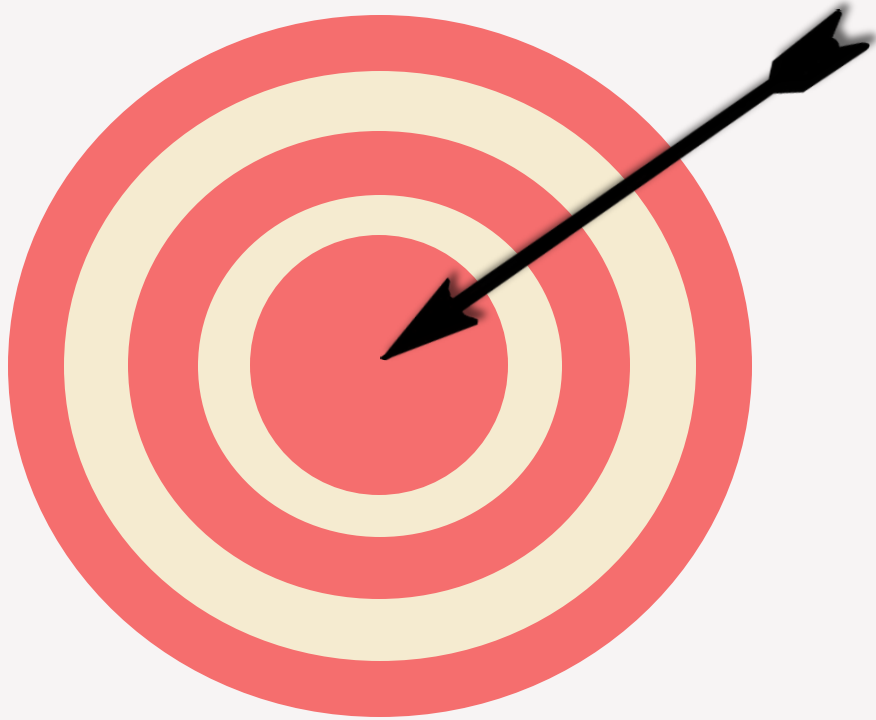
Citation: <https://www.youtube.com/watch?v=hiLFESy3EWo>

<https://www.attendanceworks.org/chronic-absence/the-problem/>

Attributes Related to Chronic Absenteeism

- Learning gaps
- Economic hardship
 - Widens inequalities
- Health related absences
- Safety of Commute
- Disengagement from school

Goals



#1: Trends

Establish trends between chronic absenteeism and crime rates

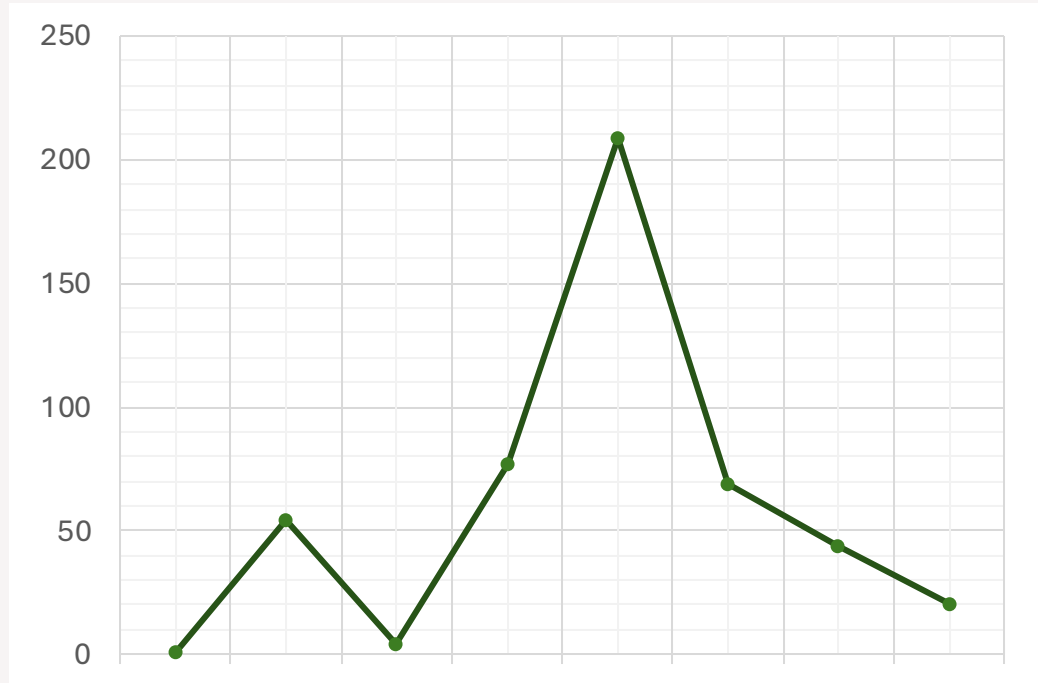
#2: Visualizations

Create data visualizations that show these trends

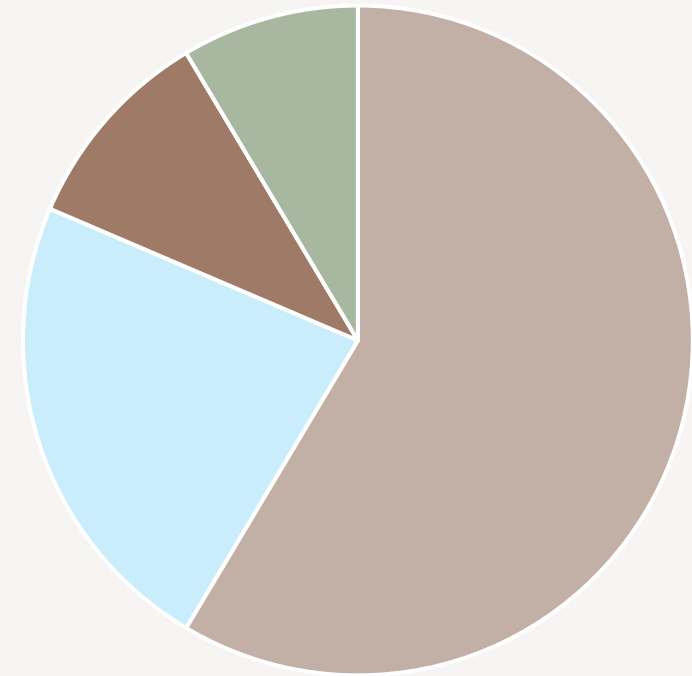
#3: Create Data Map

Create a data map with various sources of relevant data

Questions we want to answer

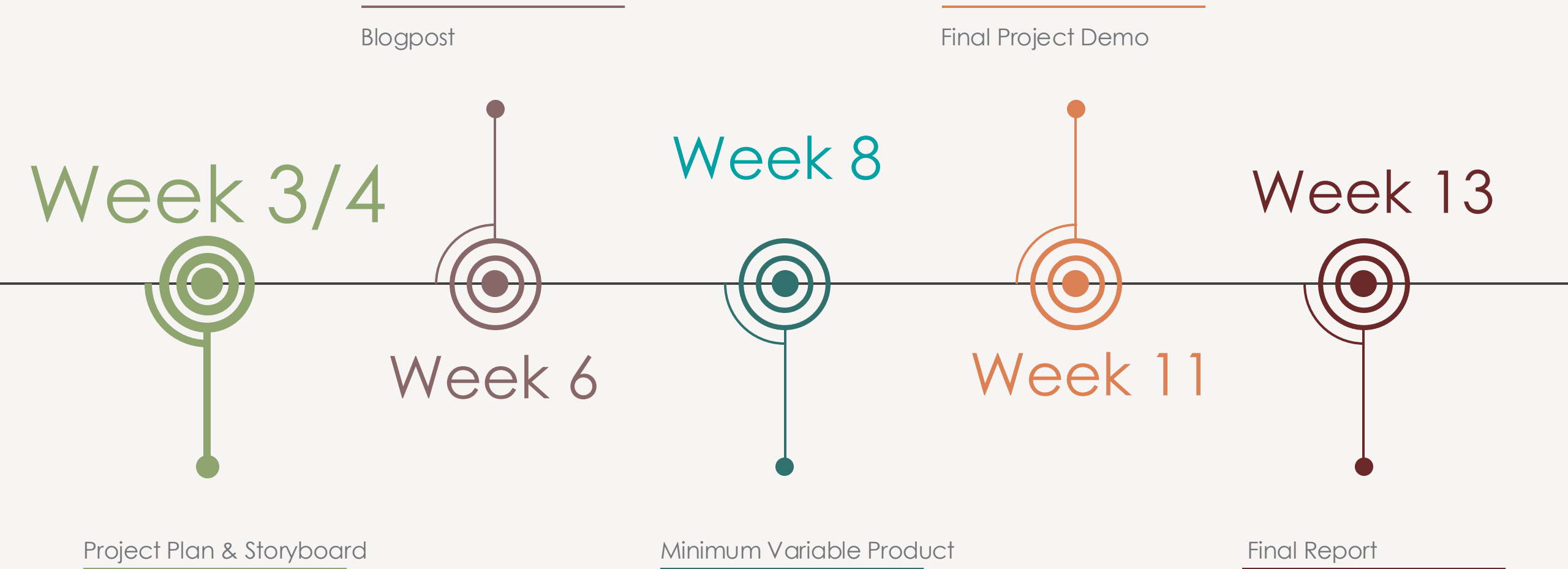


How does the rate of chronic absenteeism correlate to crime rate in each community?

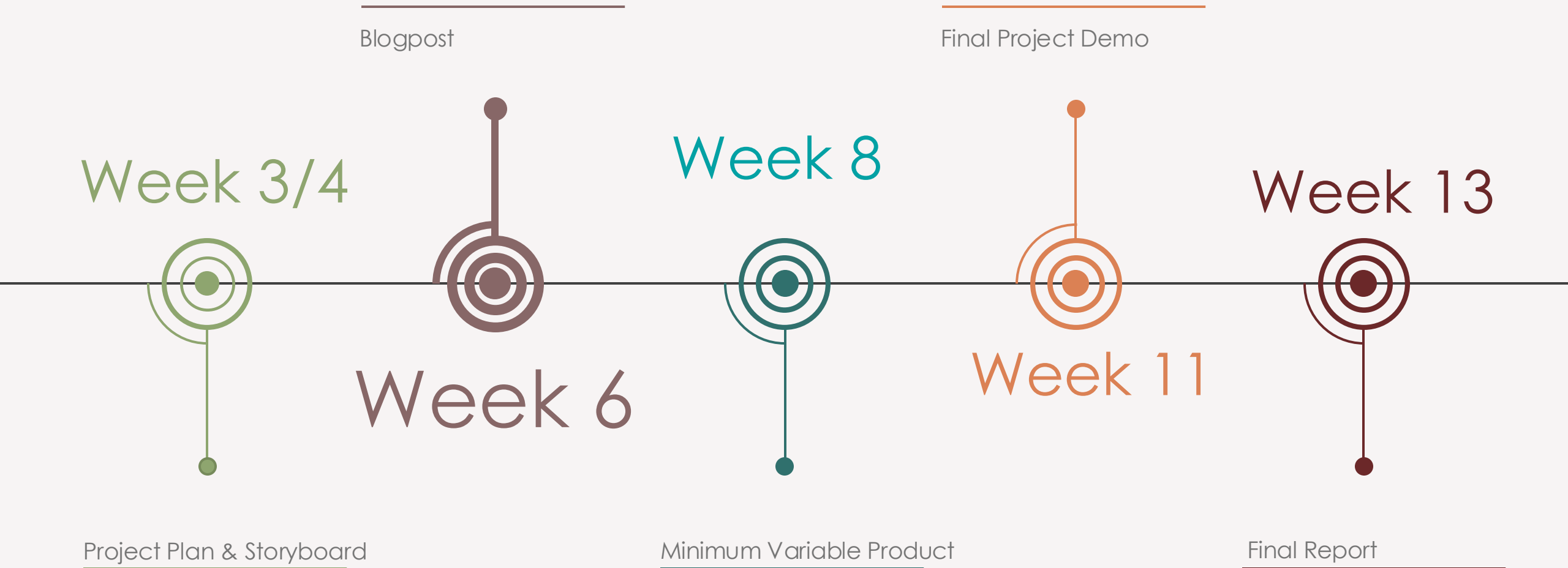


In which communities are the rates of chronic absenteeism the lowest?

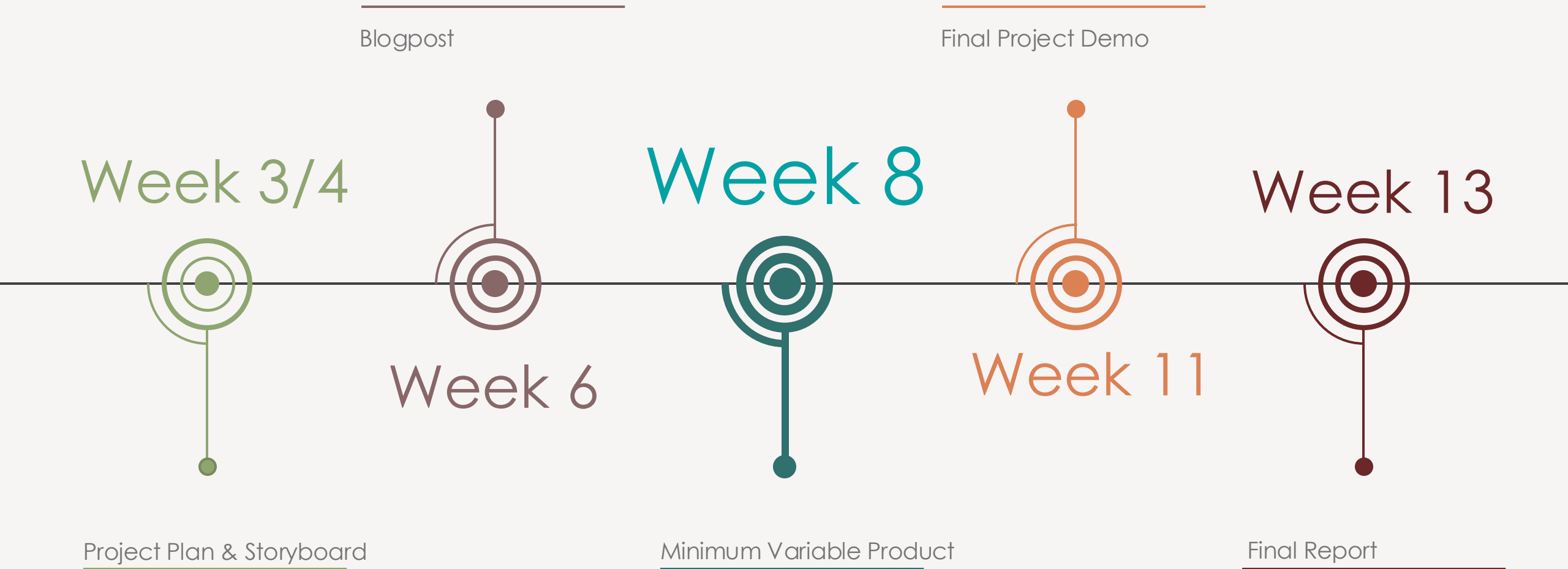
TIMELINE



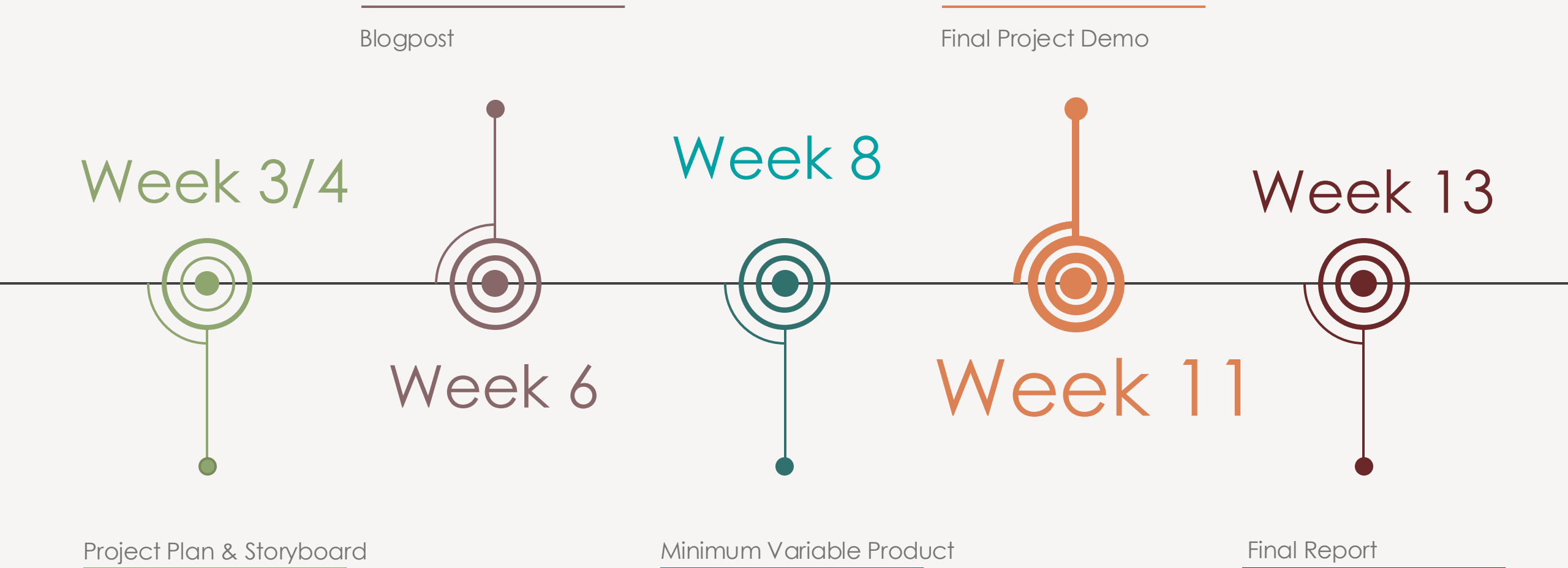
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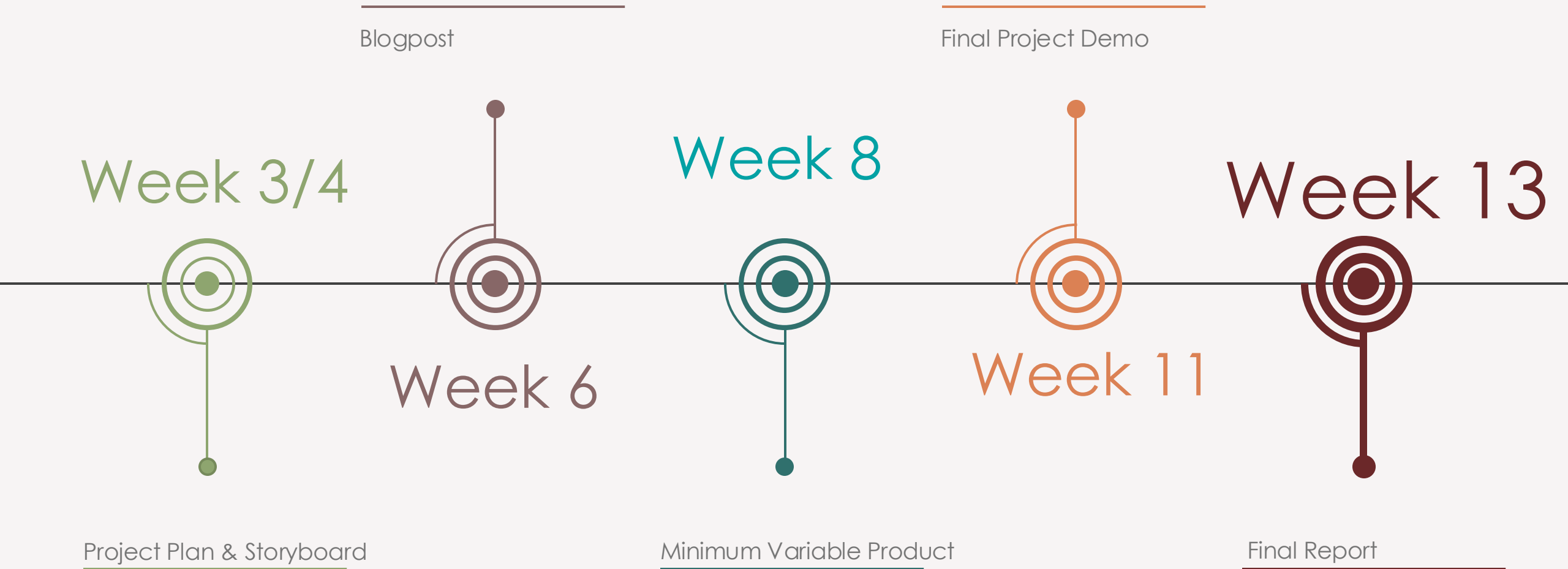
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TIMELINE



TIMELINE

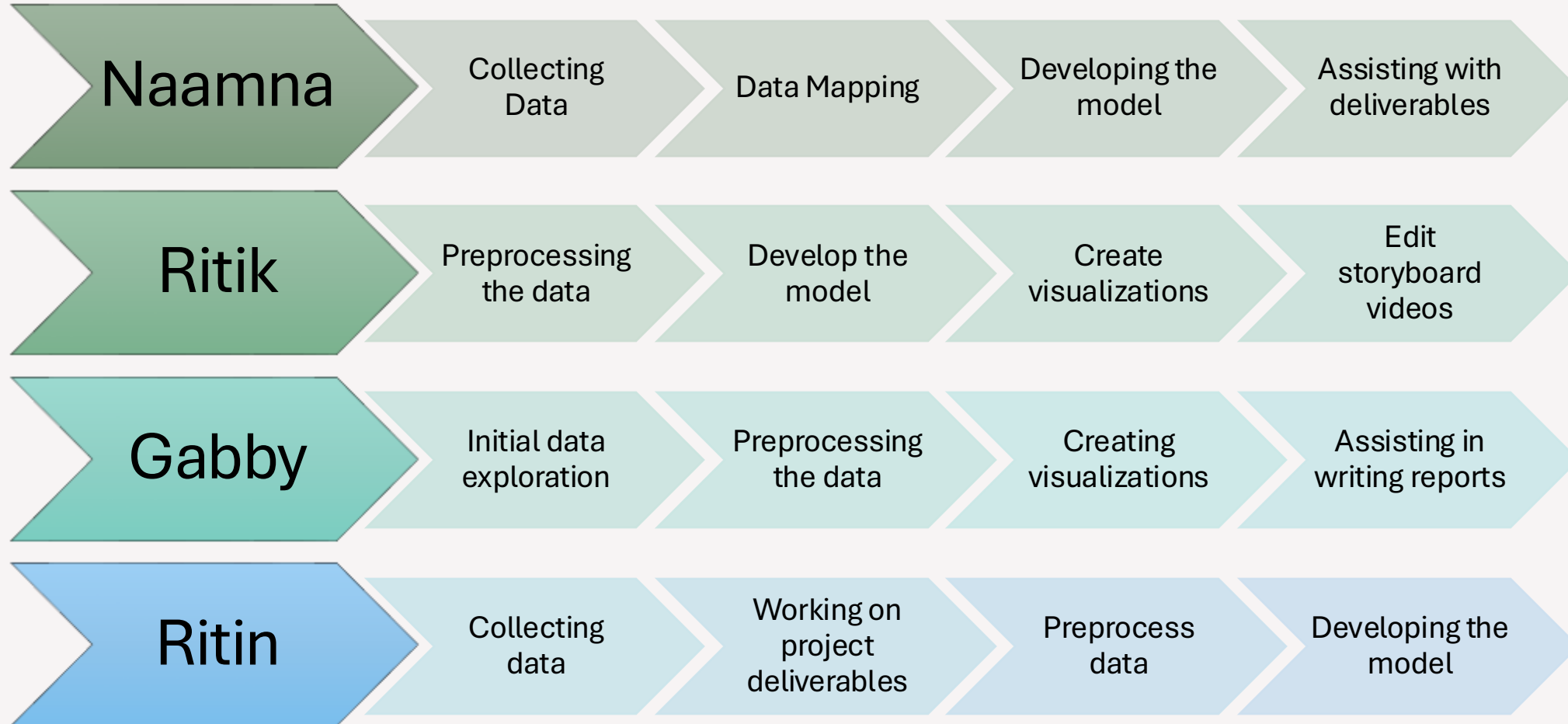


Open Loops

- Creating the community health index
- Exploring the relationship between chronic absenteeism and various variables
- Finding relevant open-source data sets
- Reviewing and understanding Qside's code regarding the project



Work Breakdown



Expected successful outcomes

- Creating a functioning Community health index
- Sourcing at least **one local dataset** per key indicator
- Balanced, well performing model
- Having a user adoption rate of at least **50%**
- Scoring a **4 out of 5** in the usability tests
- Provide insights using sourced data
- Produce quality visualizations for stakeholders and community partners
- Produce a well written final report

The background features a light cream color with decorative elements. On the left and right sides, there are green leafy branches. In the bottom left and right corners, there are large, soft-edged orange shapes with concentric wavy lines inside them.

Thank you!