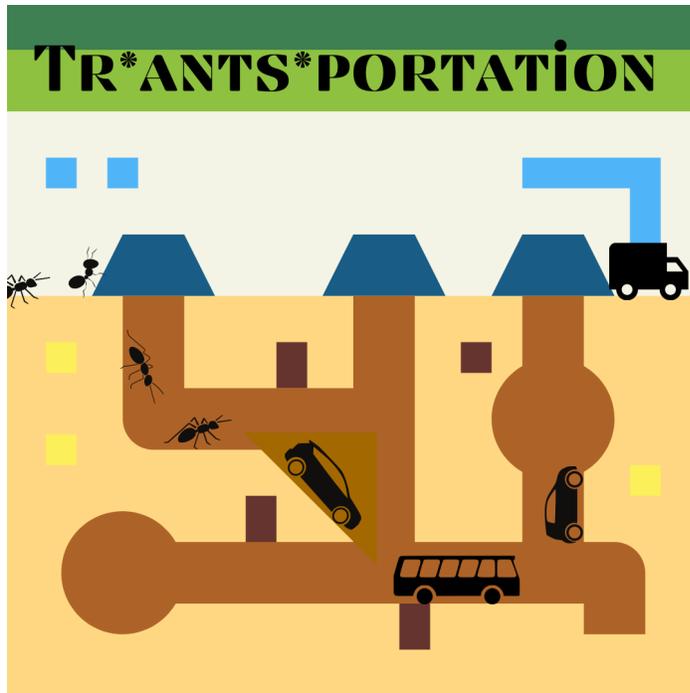


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**Caption:** Scientists and Engineers have started exploring the idea of underground fast travel for cars, so why not learn from the experts? Ants are known for their organized ways of traveling and elaborate tunnels. We can learn from their behavior and mimic underground travel for our daily lives.



**Reflection:** After today's walk I noticed how organized the ants were walking along the path. None of them bumping into each other and all walking with a purpose. I walked by their ant hill and I thought to myself how cool it would be to be able to travel through such intricate yet organized tunnels underground. I know that the metro system and tunnels already exist, but I imagined this being an opportunity to expand travel for daily life. There are engineers already looking into underground travel for cars, such as Elon Musk, but what if we can optimize this form of travel by looking at the experts in nature. Here's my breakdown using the Biomimicry Design Spiral:

**Define:** The problem being defined is trying to find ways to solve the traffic issues in our growing world and finding a natural way that may help with emissions.

**Biologize:** The function of my invention is to be able to apply it to large cities where both traffic and emissions are at their worst.

**Discover:** Ants have developed into having super organized ways of traveling underground.

**Abstract:** We can observe the behaviors of ants underground and learn to develop an underground system that mimics this and create a faster and reliable way people can travel as

an alternative. Plus, the fact that its underground/dirt, we can help with finding ways of reducing the amount of emissions put into the atmosphere.

**Emulate:** imitate the ants behavior by creating underground tunnels with either 'carts' or a sort of elevator to aid with moving up steep angles.

**Evaluate:** Set some simulations on engineering software and figure out cost and efficiency.

