

Are you working on the superficial or the fundamental layer?

Here's one way to tell. If your solutions are continually failing, even after successive generations of solutions have been tried for decades, then you're working on the superficial layer.

There's another way to tell. Since the hardest part of analysis is finding the correct root causes, the System Improvement Process employs a formal definition. The **Five Requirements of a Root Cause** are:

1. It is clearly a (or the) major cause of the symptoms.
2. It has no worthwhile deeper cause.
3. It can be resolved.
4. Its resolution will not create other equal or bigger problems.
5. There is no better root cause.

This checklist allows numerous unproductive or pseudo root causes to be quickly eliminated.

If your solutions don't resolve root causes that pass this checklist, then you and your organization are working on the superficial layer.

Why not count the camel's teeth?

There's no need for environmentalists to pound away at the sustainability problem for over forty years with such meager results. All we have to do is "count the camel's teeth." The proverb is based on an old tale that goes something like this:

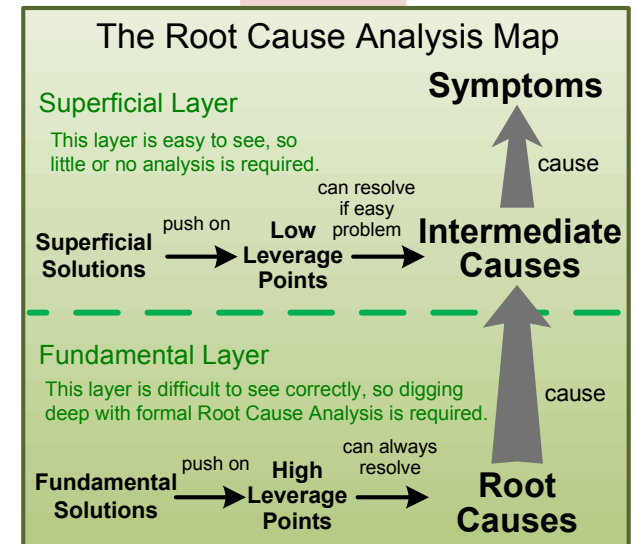
Centuries ago, somewhere in the deserts of North Africa, a tent full of wise old Arab philosophers were pondering weighty subjects. After hours of debate the question of HOW MANY TEETH A CAMEL HAD came up. Some felt it had this many. Others felt it had that many. Plausible, clever theories were put forth why each argument had to be true. Heads nodded after each opinion was presented, until yet another was put forth supporting another opinion.

There was no agreement. After hours of debate a younger philosopher remembered that outside the tent were the camels they all rode to get there. Just as one of those camels poked his head inside a flap in the tent's wall and starting grinning, the young man shouted in exasperation "WHY DON'T WE JUST COUNT THE CAMEL'S TEETH?"

All talk stopped. All eyes spun around and stared at the camel. His big grinning mouth had the answer.

Why Is Root Cause Analysis So Effective?

Because it moves your work from the superficial layer to the fundamental layer, as explained below:



Moving to the fundamental layer works because **difficult problems cannot be solved unless your work generates fundamental solutions that resolve known root causes.**

So how can we make working on the fundamental layer as easy as cooking a fine French soufflé?

Solutions are best called root cause resolvers.
How will that change the way you think and work?

We can wrap Root Cause Analysis with a process that fits the problem.

This Thwink.org has done. The System Improvement Process (SIP) was designed from scratch to solve difficult large-scale social system problems using Root Cause Analysis. **The process was iteratively improved over a seven year period as we applied SIP to the sustainability problem.** Every time we hit a brick wall we stopped, improved the process, and continued on. Continuous process improvement is what brought SIP to where it is today.

SIP is a **fill-in-the-blanks framework** that guides you to finding and resolving root causes. The process forces you to ask the right questions at each fork in the road on the long journey from problem discovery to solution. This is not easy, so the process employs several advanced techniques as explained in the diagram.

The key to SIP's effectiveness is **the way it breaks the problem** down to its component parts and then builds it back up into a cohesive whole that can now be understood. That understanding leads to solutions that work.

