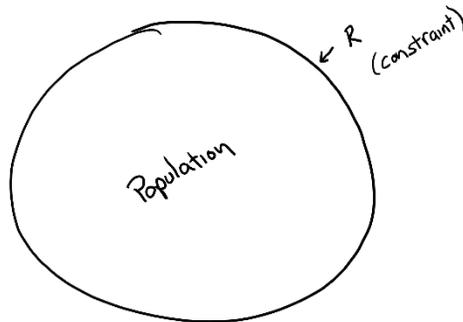


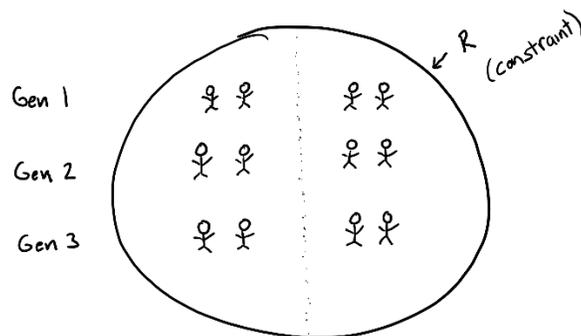
Resources sustain a population; therefore, a population is constrained by its resources. Example A.



Utilizing Darren's "Micro-Economic Population" Model: We can visually analyze and discuss the affects of Population (P) and Resources (R) in a relative model.

In this case, we'll use it to discuss unregulated population growth.

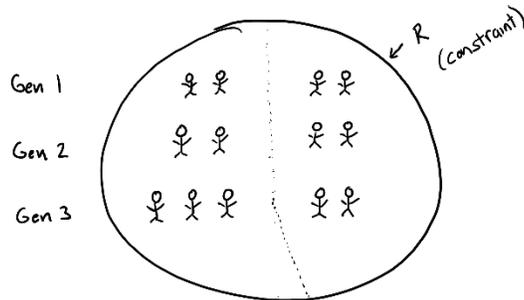
In a perfect world, given a current 78.7 year average life span, with one baby per parent being born every 39.35 years on average\*, you'd have grandma & grandpa, mom & dad, two siblings, and life repeats; on a micro-economic level highlighting just two families, A & B, you'd have this:



In this world everything is in balance, constrained by the SUSTAINABLE resources that can support the population. Family A and Family B live happily and in harmony.

(\*note: you could have a four generation model, having babies every 19.675 years instead – the results of this example still comes out the same however. The birthrate is arbitrary provided it remains a constant)

But what happens, when this happens?

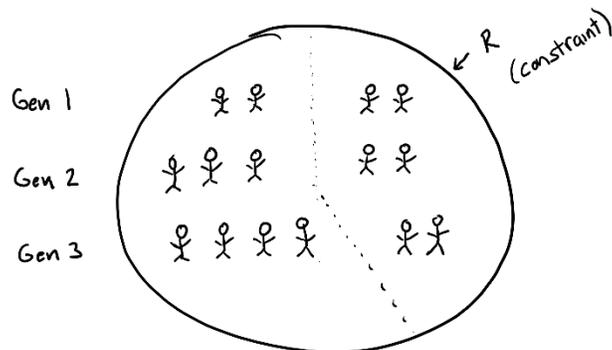


What happens when Family A decides to have three kids, when Family B has responsibly decided to have only two?

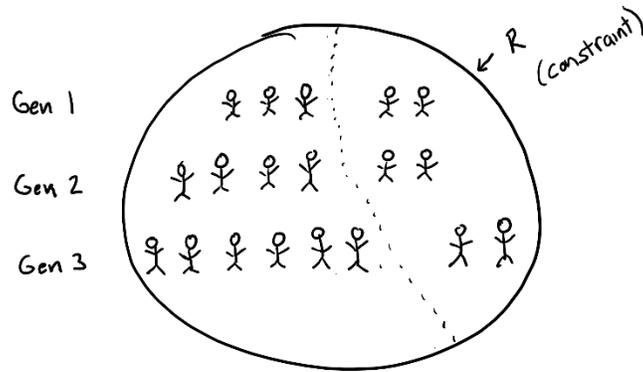
And Has R expanded just because a new baby is born? Of course not.

And then what happens in the next generation if that same family continues having just three kids per generation?

The next generation looks like this:



Then this:



And this what happens if Family A has ONLY three babies per generation.

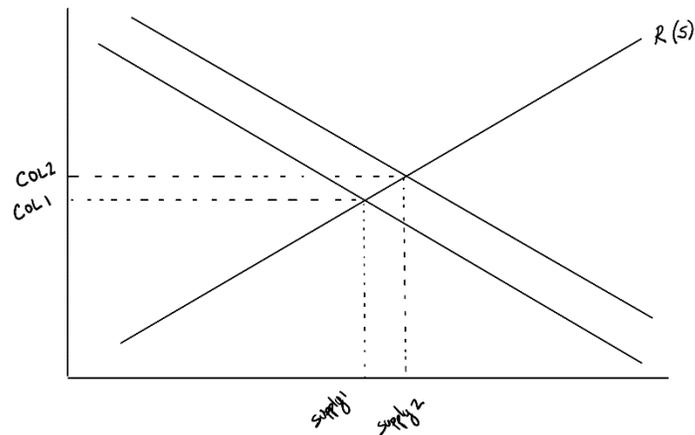
What happens if Family A decides it's ok to have 4 kids per generation?

Or what happens if BOTH families decide to have 3, 4 or more kids per generation?

Now let's talk about how this simple model affects Supply, Demand and Economic Disparity.

Increased Population = Increased Demand

Which in turn = increased COST OF LIVING ( $\Delta \text{COL2-COL1}$ )



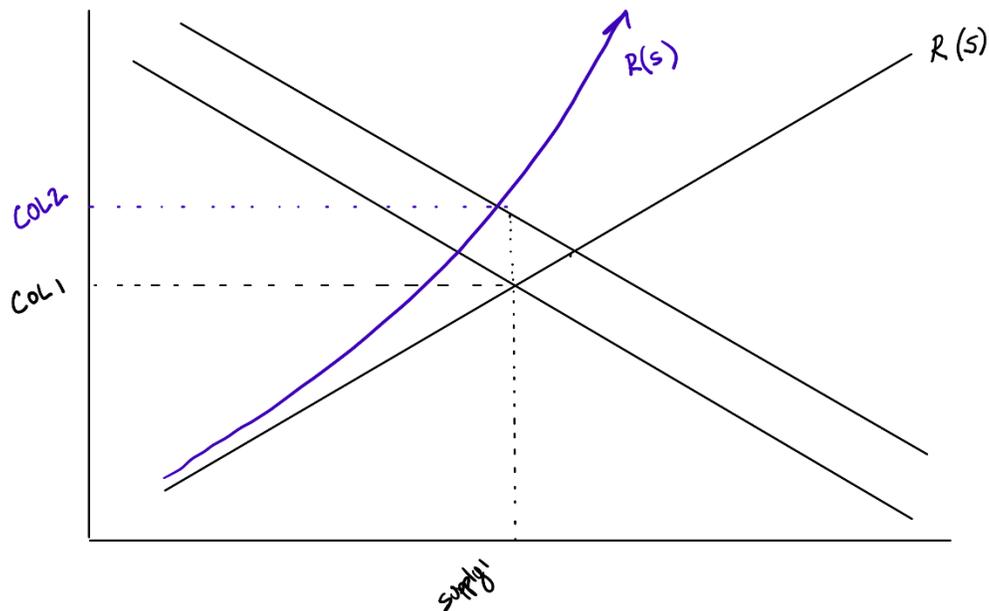
But Wait! Did Supply 1 increase to Supply 2, just because we had more babies?

Of course not, our Resources or Supply has not changed.

Remember something in economics called the 'production possibilities curve'

We'll it's basically the same thing as the 'resources availability curve'

That looks something like this:



Our Supply (or "supply 1") point does not change.

And our Cost Of Living (COL) didn't just increase a small amount, it increases near double the rate.

And again what happens to the Cost of Living if ONE of the families decides to have 3, 4 or more kids per generation?

And again, what happens if BOTH families decide to have 3, 4 or more kids per generation?

One thing that does happen in this model:

The Delta (The Difference) between 0 (those that have nothing) and those that can afford the new COL 2 (the wealthy) will continue to INCREASE not decrease.

And talking about Slavery (excuse me "affordable") Housing as a solution is definitely not the answer.

So what about that R factor though? The resources. I hear it far too often that if we're more efficient or see that expanding, this growth won't perhaps be a problem.

And if a little know source call the **United Nations Environmental Programme** hadn't invested in a world study that came back with these results, I might have agreed.

### **65 Top Scientific Agencies Around the World Asked To Identify The Balance Between Resources and Human Population On This Earth: What Is Our Carrying Capacity?**

**6** studies suggest 2 Billion People

**7** studies suggest 4 Billion People

*We are at 7.72 Billion People Right Now\**

**20** studies suggest 8 Billion People

*the above equals 33, or more than half the studies have us at 8 Billion or less*

**14** studies suggest 16 Billion People

**6** studies suggest 32 Billion People

**7** studies suggest 64 Billion

**2** studies suggest 128 Billion

**1** study suggests 256 Billion

**1** study suggests 512 Billion

**1** study suggests 1024 Billion

\*please take a minute and go to [www.worldmeters.info](http://www.worldmeters.info)

The questions we should be asking:

**SO WHAT IS OUR CURRENT – AND SUSTAINABLE - LEVEL OF “R” FOR WEST MAUI?**

**WHAT IS THE SUSTAINABLE POPULATION AMOUNT WITHIN THAT “R” CONSTRAINT?**

**WHAT PLANNING GOALS DO WE NEED TO SET TO GET THERE?**

**(and yes ... all this corresponds with the “solutions” I just provided in regards to tax structure based on resource consumption and carbon footprint)**

Mahalo, Darren.

Bonus for Hans:

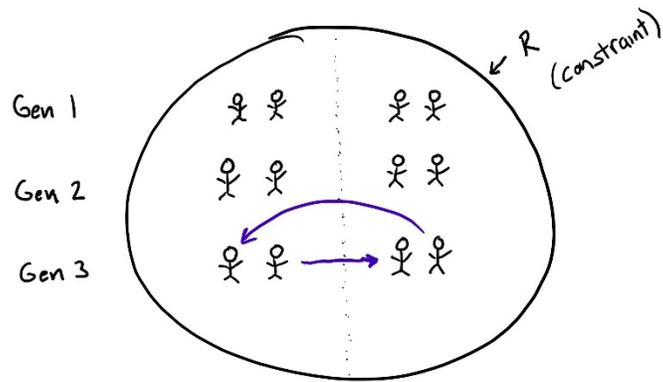
I agree with something Hans referred to that mentioned a father having a child that eventually goes off, works hard and learns independence for themselves. A “cycle-of-life” metaphor if you will.

I 100% agree.

If child x goes off, child y stays for family A  
and the same goes for family B

Then according to what I also believe learned in Biology...

OUR GENE POOL JUST STRENGTHENED ITS DNA. :)



“TRUST”

In probing an individual from the planning committee on 8/6, I was asked to “trust the process”; and I get that. I understand one must see the entire picture before one can fully judge the outcome of it.

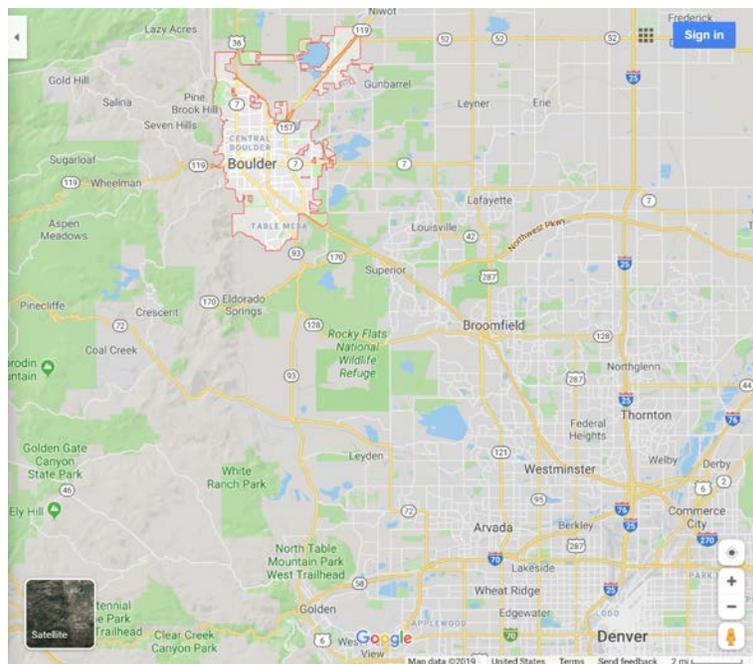
It was also told to me that I need to understand that I’m in the hands of individuals in positions whom have won national accolades for their planning work. (and I honestly forget the name of the accolade, apologies please remind me when you can)

Here’s my only, personal resident now of West Maui, problem with that.

My life experiences have led me to a belief, albeit perhaps an axiomatic belief that you can help me to dispel before we allow it to happen; that creating a ‘Utopia’ population – one that wins multitudes of national awards – may not necessarily be the real answer to a much greater problem: one that will be held by our next generation.

I went to school and lived in Boulder Colorado for eight years of my life.

Like Mike Victorino who waxed poetically about how many lights he used to see, I as well, in my generation, used to see three distinct towns with open space between them as I drove from Denver to Boulder on Highway 36. Westminster, Broomfield, Louisville. Look at it now. One giant urban sprawl.



Accept to when you crest the hill in Louisville, you get this view:



<https://www.bouldercounty.org/government/about-boulder-county/>

Wow.

One of the most incredible views. Look at all that county open space surrounding the city! (you can see it in the street map above too)

Busses that come almost every 7-10 minutes and blocks from where you live.

Clearly an abundance of green space for everyone to enjoy.

Bike and Walking paths that extend throughout the entire city, up into the canyons, and into neighboring towns.

Mixed use planning that incorporates retail and residential throughout the downtown area

Community centers to gather, including international Tea Houses,

Brainiest City, Best Small City, Top City For Well Being; and some really amazing, amazing things.

And if you're curious how many accolades Boulder Colorado has one, just check out this website:

<https://www.bouldercoloradousa.com/media/media-kit/boulder-tops-the-lists/>

So here's the only thing that everyone, including all my once resident friends that have had to leave there now seem to say...

"You now can't buy a house within Boulder for under a million dollars"

Well, not quite true, but pretty close. Boulder Colorado's net housing cost has risen dramatically comparative to it's neighbors with all this utopian development. If you just go on line to any real estate

site, you'll see houses starting in the \$650K+ range, with the majority more upwards of that million+ range. Almost rivaling that of Maui. But now go over and search Erie Colorado, just 20 minutes east on the plains, in the urban sprawl. Giant houses just in the \$300K range – where urban population sprawl is allowed to grow unfettered. Where all my once resident friends of the town they love, Boulder, now live.

As many have described the affect on Boulder: what once was a community of close knit mountain hippies evolving from the 60's, so quickly turned into a bunch of hipster rich kids living off their mommies and daddy's pockets from out of state. – and do we have the potential for that in West Maui?  
I would suggest absolutely yes.

For some reason I feel like we should start talking about Las Vegas right now; or “The 9<sup>th</sup> Island” as it has become.

So do you understand when someone says “trust me” and then proceeds to quote accolades – I'm even more skeptical for their intent for the community of West Maui?

My Community.

I hope you can find some understanding in this thinking.

Love,

Darren