

# IMPORTANCE OF AQUACULTURE TO URBAN COMMUNITIES

**inCity**  
farms

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## CIRCUMSTANCES

**Healthcare is \$4.7 Trillion, accelerating rapidly (17%)**

**38 Million Americans are diabetic**

**100 Million Americans are pre-diabetic**

**88% of Americans are metabolically unhealthy**

**40% are now obese and rising**

**Dietary assumptions of 1945 are being questioned**

## KINSHIP AROUND FISH

**Fish** - is an important source of dietary protein

**Nutritionally Rich** - Magnesium, Iron, Zinc, Iodine, Omega 3's, and Potassium

**Efficiency** - the 2nd best Feed Conversion Ratio (FCR) of animal proteins

**Species Variability** - Must we eat Salmon all the time ?

**Water** - The midwest is asset rich with our water capability

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## SHARED CHALLENGES

**Needed marketing responses** - Wild caught, Farmed Raised, etc.....

**Mercury risk** - (The atmosphere holds 4,000 metric tons)

**Contaminated water** - He can be filtered out to the 95 to 97 percentile by RO

**Nitrate management** - Must increase uses

**Hybrid supply chain management** - Expand beyond wholesale - retail

**More robust feed options** - Another industry is waiting to spawn

## POSSIBILITIES

**Live Food Industry** - Worms, black soldier fly, new aqua feeds

**Fish Oils** - Raise oily fish for consumption and oils (Jade Perch)

**Fish waste** - as soil amendments and fertilizers

**Satellite operations** - More options

**Expanding Species options** - more is better

## MY HOPE

**Reasoned approach to plant based combinations**

**Reestablishment of Urban and Rural food connection**

**Land Based Salt water fish options**

**Municipal Officials need help with the science implications**

**Pay attention to the “Miners Canaries”** (No such thing as a isolated problem)

**The Social Determinants of Health**