HOMEMADE RAMEN & THREAT INTEL

A recipe for both

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METAPHOR WARNING!!!

WHAT IS RAMEN?

WHAT IS THREAT INTELLIGENCE?

THE GOAL

Understand the combination of tools, inputs, process, & people that lead to creating a threat intelligence capability.

THE TOOLS

“SOMETHING (SUCH AS AN INSTRUMENT OR APPARATUS) USED IN PERFORMING AN OPERATION OR NECESSARY IN THE PRACTICE OF A VOCATION OR PROFESSION”

Merriam-Webster: Tool (Def 2a)

THE TOOLS FOR RAMEN

TOOLS

- Tongs
- Ladle
- “Spider”
- Knives & Cutting Boards
- “Base Infrastructure:” Pots & Pans, Stove Top Burner

INFRARED THERMOMETER

Aka Kitchen Laser Gun

THE TOOLS FOR CTI

Unnamed Investigation

Quick Add

Waterholing attack on financial websites

Info | Links | Analytics

Tagged for

movis-es.ignorelist.com
waterholing_eye-watch | c2
active

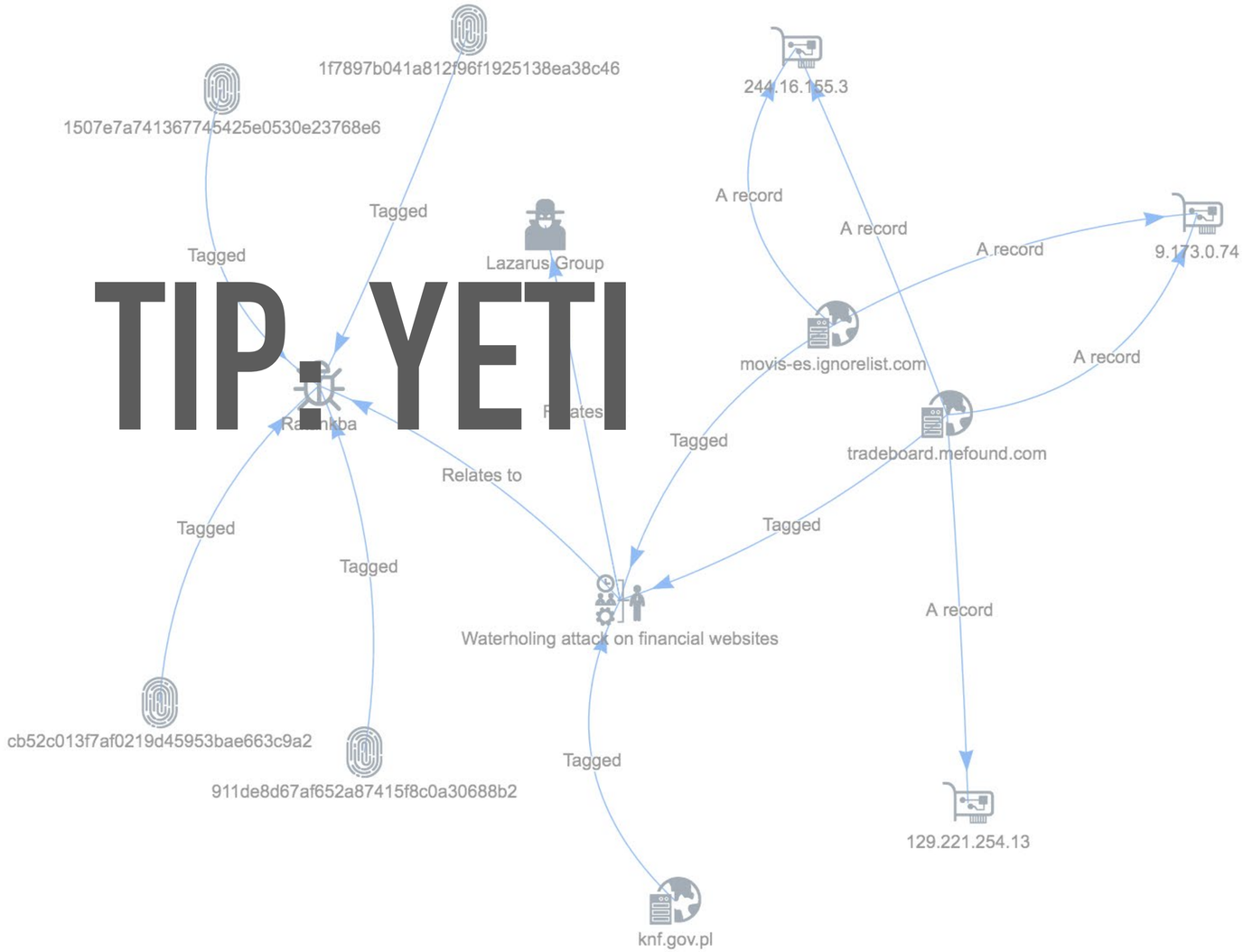
tradeboard.mefound.com
waterholing_eye-watch | c2
active

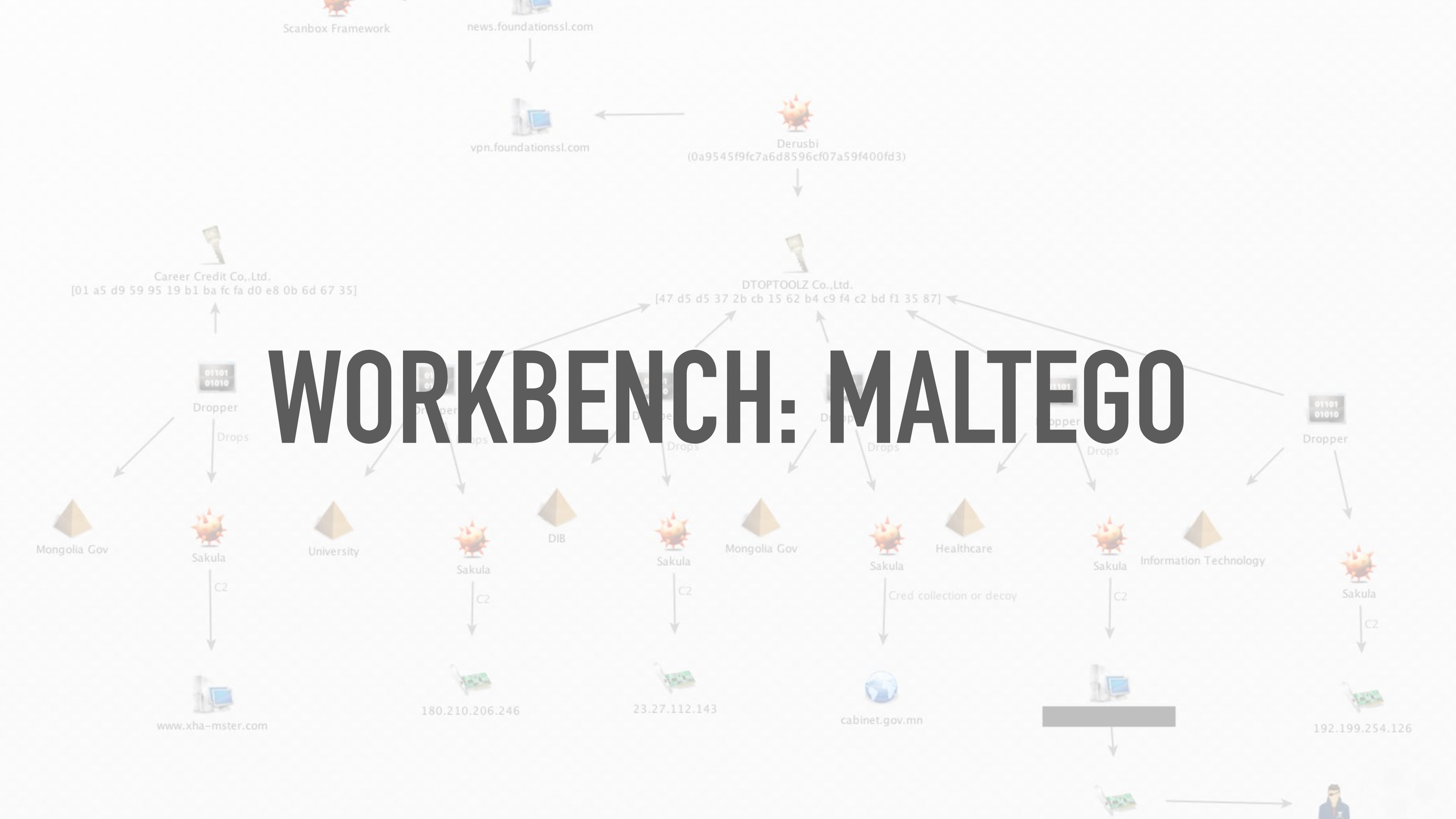
knf.gov.pl
compromised | waterholing_eye-watch
active

Relates to

Ratankba
active

Lazarus Group
2017-03-15 → 2017-03-15





WORKBENCH: MALTEGO

DETECTIONS: YARA & SNORT

```
import "pe"
import "hash"

rule dragos_crashoverride_suspicious_export
{
  meta:
    description = "CRASHOVERRIDE v1 Suspicious Export"
    author = "Dragos Inc"

  condition:
    pe.exports("Crash")
}

rule dragos_crashoverride_suspicious
{
meta:
  description = "CRASHOVERRIDE v1 Wiper"
  author = "Dragos Inc"

  strings:
    $s0 = "SYS_BASCON.COM" fullword nocase wide
    $s1 = ".pcmp" fullword nocase wide
    $s2 = ".pcmi" fullword nocase wide
    $s3 = ".pcmt" fullword nocase wide
    $s4 = ".cin" fullword nocase wide

  condition:
    any of ($s*) and pe.exports("Crash")
}
```

```
overrun attempt"; flow:to_server,established; content:"|18 03 03|"; dep
1; metadata:policy balanced-ips drop, policy security-ips drop, ruleset
classtype:attempted-recon; sid:30513; rev:5;)

alert tcp $HOME_NET [25,443,465,636,992,993,995,2484] -> $EXTERNAL_NET
- possible ssl heartbleed attempt"; flow:to_client,established; content
metadata:policy balanced-ips drop, policy security-ips drop, ruleset co
classtype:attempted-recon; sid:30514; rev:6;)

alert tcp $HOME_NET [25,443,465,636,992,993,995,2484] -> $EXTERNAL_NET
- possible ssl heartbleed attempt"; flow:to_client,established; content
metadata:policy balanced-ips drop, policy security-ips drop, ruleset co
classtype:attempted-recon; sid:30515; rev:6;)

alert tcp $HOME_NET [25,443,465,636,992,993,995,2484] -> $EXTERNAL_NET
response - possible ssl heartbleed attempt"; flow:to_client,established
byte_test:2,>,128,0,relative; metadata:policy balanced-ips drop, policy
reference:cve,2014-0160; classtype:attempted-recon; sid:30516; rev:6;)

alert tcp $HOME_NET [25,443,465,636,992,993,995,2484] -> $EXTERNAL_NET
response - possible ssl heartbleed attempt"; flow:to_client,established
byte_test:2,>,128,0,relative; metadata:policy balanced-ips drop, policy
reference:cve,2014-0160; classtype:attempted-recon; sid:30517; rev:6;)

alert tcp $HOME_NET any -> $EXTERNAL_NET [25,443,465,636,992,993,995,24
overrun attempt"; flow:to_server,established; content:"|18 03 00|"; dep
balanced-ips drop, policy security-ips drop, ruleset community, service
classtype:attempted-admin; sid:30520; rev:3;)

alert tcp $HOME_NET any -> $EXTERNAL_NET [25,443,465,636,992,993,995,24
```

3RD PARTY SOURCES: PASSIVE TOTAL & SHODAN

KEY: FITTING INTO YOUR ENVIRONMENT

“Remember, it is never the knife's fault.”

– Daniel Boulud

THE INGREDIENTS

“SOMETHING THAT ENTERS INTO A COMPOUND OR IS A COMPONENT PART OF ANY COMBINATION OR MIXTURE”

Merriam-Webster: Ingredient

THE INGREDIENTS FOR RAMEN

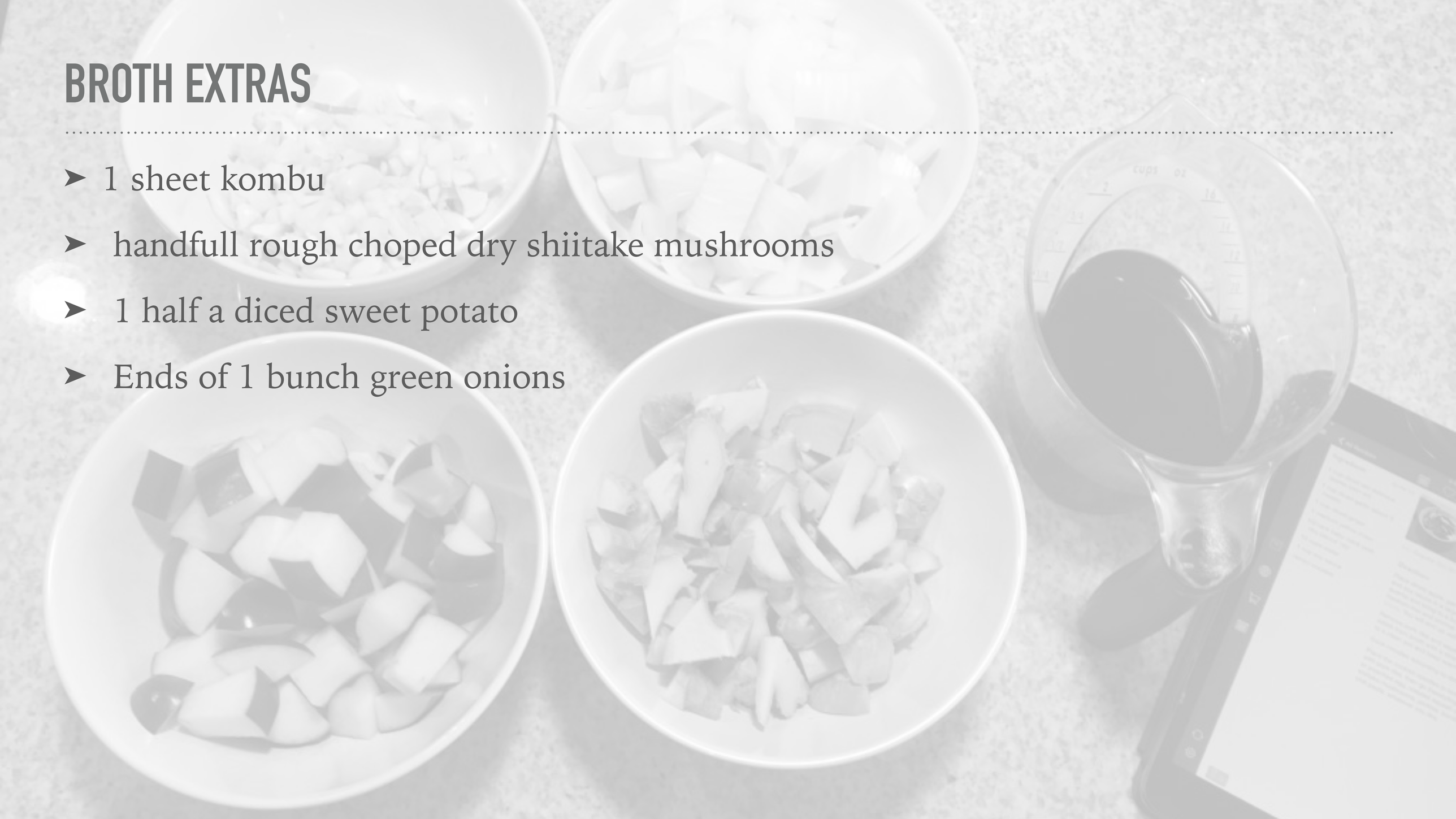
BROTH BASE

- 1 cup rough diced red delicious apple (about 1)
- 1 cup rough diced garlic (about 3 heads)
- 1 cup rough diced ginger
- 1 medium yellow onion
- 1/2 rack pork baby back ribs
- 12 cups water
- 1 cup soy sauce

NOODLES

BROTH EXTRAS

- 1 sheet kombu
- handfull rough choped dry shiitake mushrooms
- 1 half a diced sweet potato
- Ends of 1 bunch green onions



SERVING EXTRAS

- Slow Poached Eggs
- Nori/Wakame
- Siracha
- Sweet Potato
- Grilled Sweet Potato

THE INGREDIENTS FOR THREAT INTELLIGENCE

YOUR OWN INCIDENTS

YOUR TEAMS

VENDOR REPORTS

HONEYPOTS

PEERS/SHARING COMMUNITIES

3RD PARTY PAID INTELLIGENCE

“

Real food doesn't have ingredients, real food is ingredients.

–Jamie Oliver

THE RECIPE

“A SET OF INSTRUCTIONS FOR MAKING SOMETHING FROM VARIOUS INGREDIENTS”

Merriam-Webster: Recipe (2)

THE RECIPE FOR RAMEN

STEPS FOR RAMEN

- Bring water (Optional add dry shiitakes and nori) to a simmer
- Add other ingredients (except noodles) and bring to a boil
- Reduce heat and simmer 2.5-3 hours (reduced to about half)
- Prepare noodles and serve with extras

THE RECIPE FOR THREAT INTELLIGENCE

INTELLIGENCE CYCLE

F3EAD

FIND

FIX

FINISH

EXPLOIT

ANALYZE

DISSEMINATE

LESSONS LEARNED & PRACTICE

“Today’s innovation is tomorrow’s tradition.”

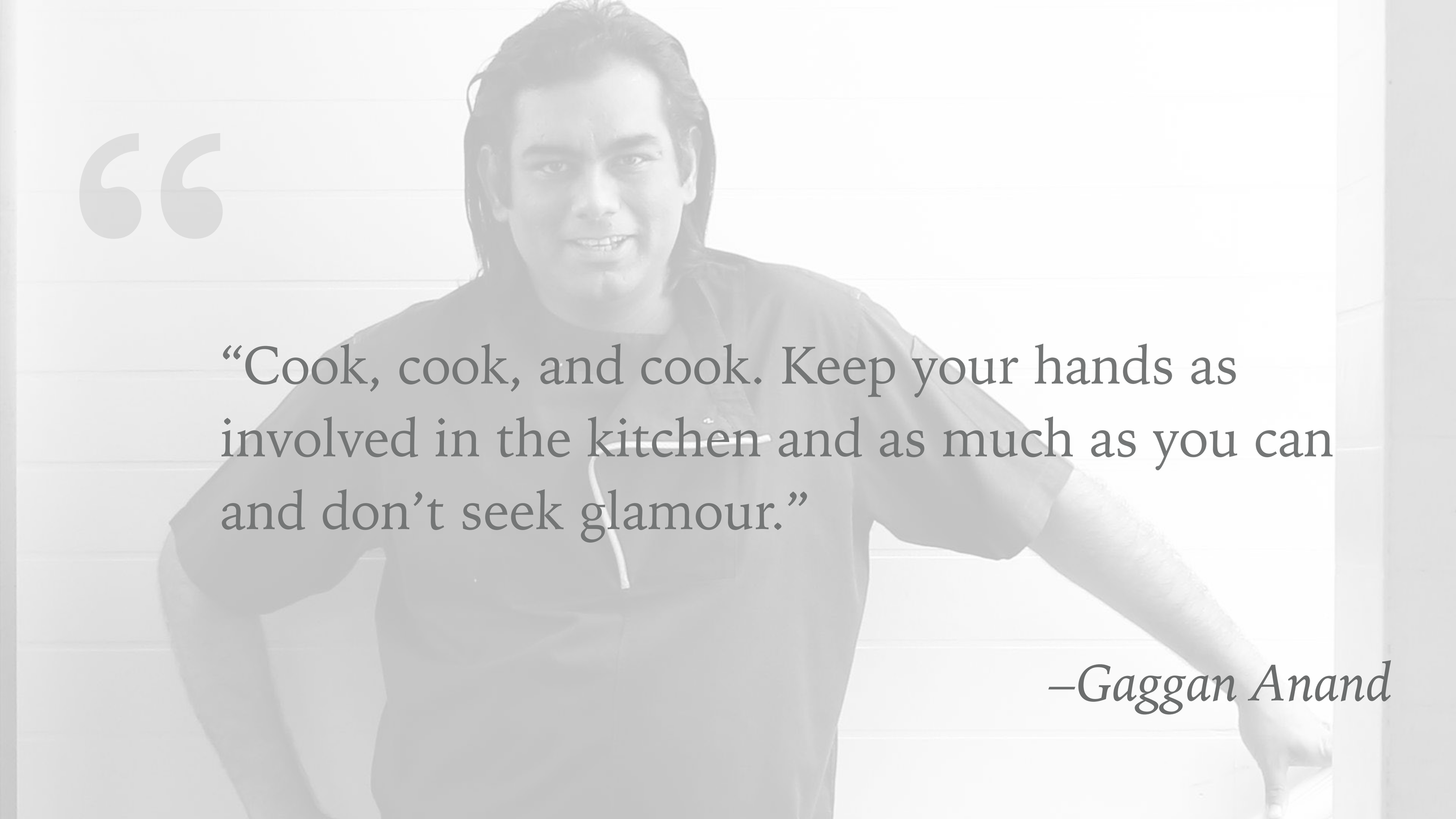
–Lidia Bastianich

THE COOKS

GREAT COOKS EAT
(CONSUME)

GREAT COOKS COOK
(CREATE)

GREAT COOKS LEARN
(GROWTH)



“Cook, cook, and cook. Keep your hands as involved in the kitchen and as much as you can and don’t seek glamour.”

–Gaggan Anand

THE OUTPUT

INTELLIGENCE PRODUCTS

RFIS

SHORT FORM REPORTS

LONG FORM REPORTS

CONCLUSION

TAKEAWAYS

- Think about your tools
- Get to know and understand your inputs
- Focus on honing your processes
- Grow your people

RAMEN RECIPE

- 1 cup rough diced red delicious apple (about 1)
- 1 cup rough diced garlic (about 3 heads)
- 1 cup rough diced ginger
- 1 medium yellow onion
- 1/2 rack pork baby back ribs
- 12 cups water
- 1 cup soy sauce

- Bring water to a simmer
- Add other ingredients and bring to a boil
- Reduce heat to low and simmer 2.5-3 hours
- Remove ribs & discard veggies, shred pork, & prepare ramen noodles
- Plate w/ noodles, broth, pork, & extras then serve
  - Good extras ideas include Slow Poached Eggs, Nori/Wakame, Siracha, Grilled Sweet Potato

THANKS

“Usually, one’s cooking is better than one thinks it is.”

–Julia Child