

KOPPERT CRESS Architecture Aromatique



KOPPERT CRESS





Architecture Aromatique











Let's change the way we look at

fresh food and health



Binnenho x = independently organized TED e



Biggest learning point meet the Hunter Collector



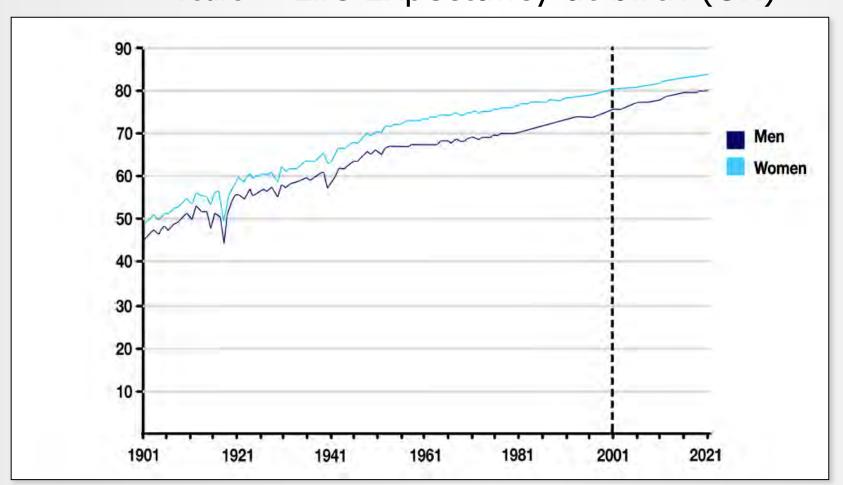




Genetically the same The human genome changes 0,2% in 1 million years



Years Life Expectancy at birth (UK)





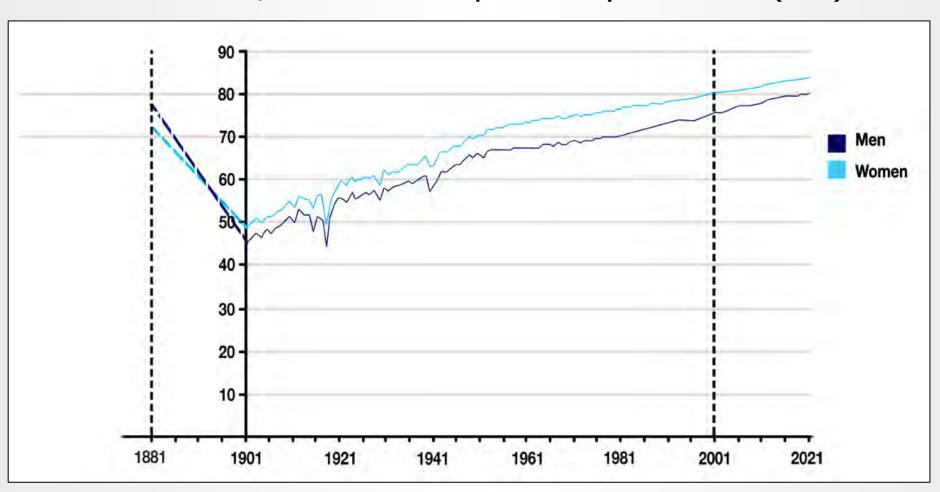


WRONG!

Mis-interpretation of statistics

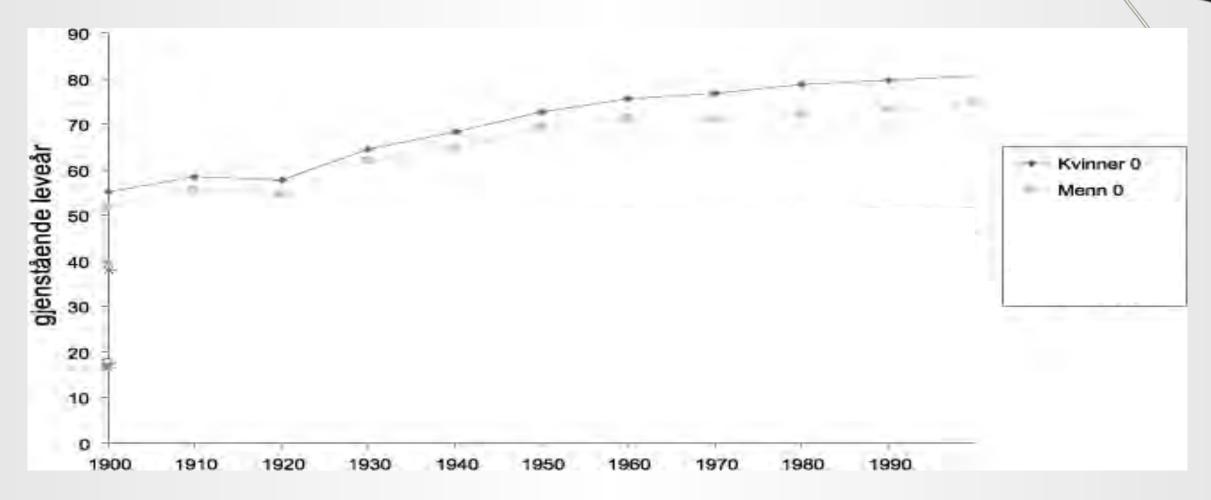






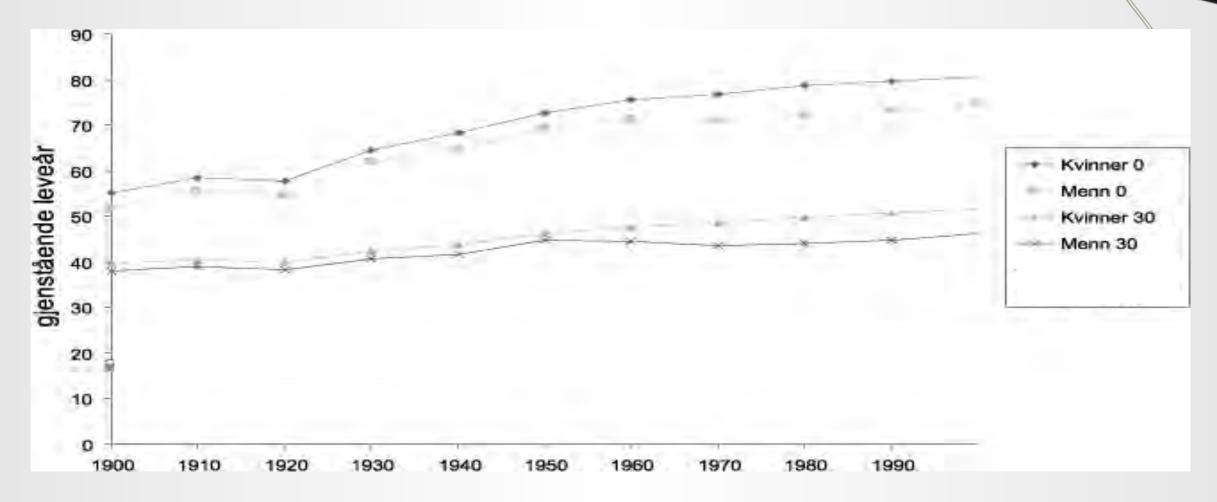


Life Expectancy by Age Group



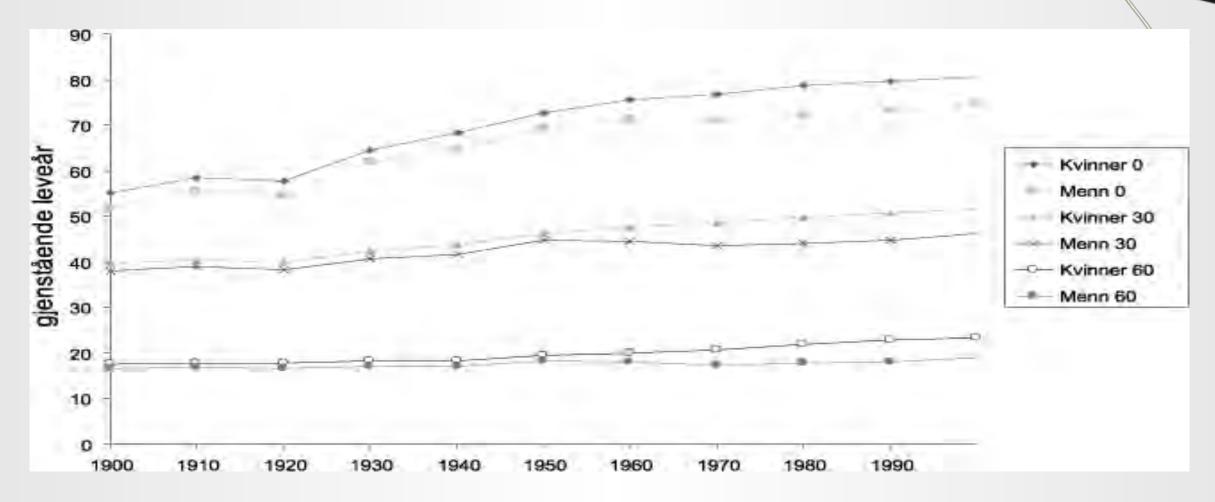


Life Expectancy by Age Group





Life Expectancy by Age Group





Life expectancy England & Wales

- Mid-Victorian men: 75
- 21st century men: 75.9
- Mid-Victorian men: 75
- 21st C: working class men: 72

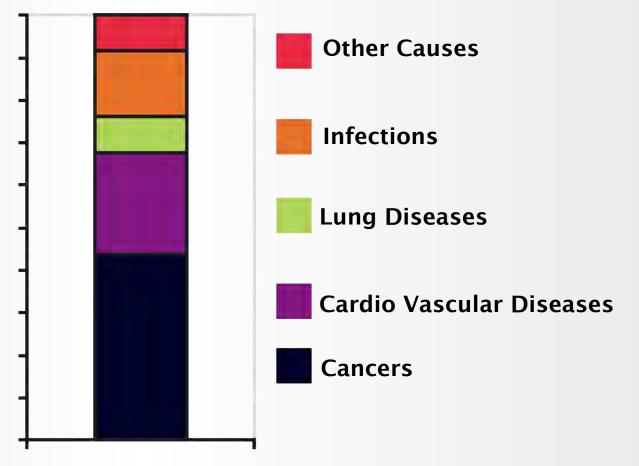


The Mid-Victorian 'Golden Age'

- c1850 c1885
- Mid-Victorians, rich or poor, had similar life expectancy
- Better health expectancy
- Required significantly less health care

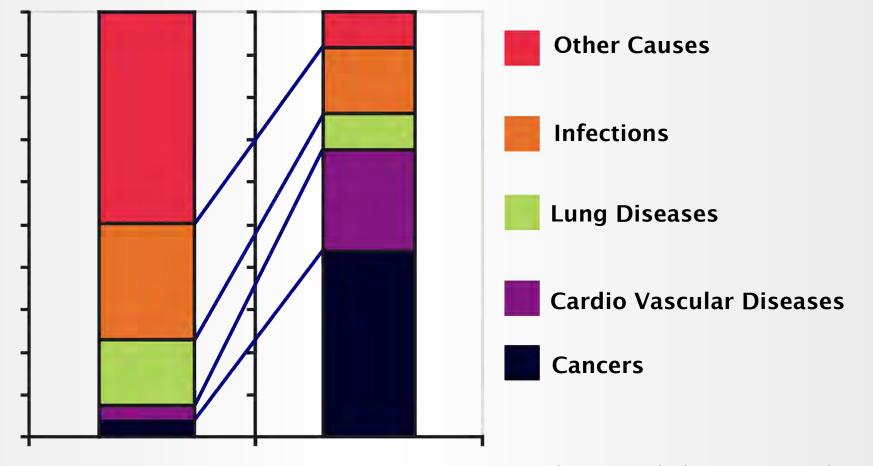


Cause of Death in England and Wales 1997





Cause of Death in England and Wales 1880 and 1997









• 1900: army rejects 50% of recruits

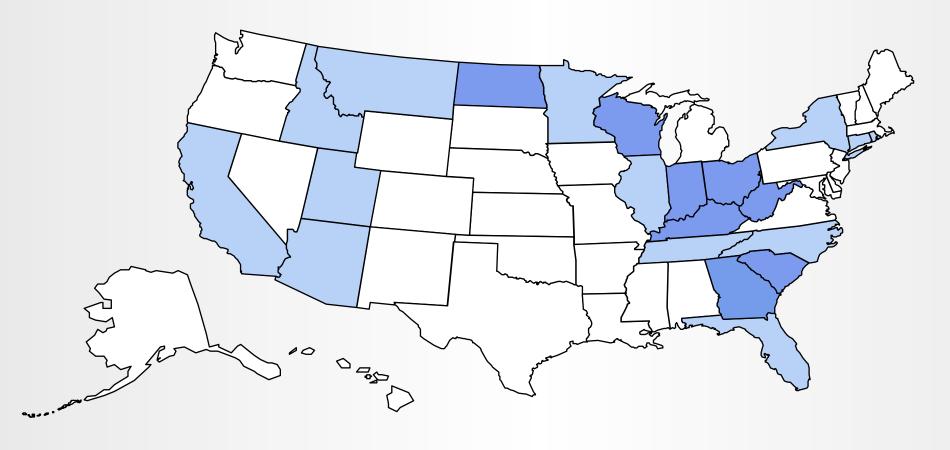
Minimum height of army recruits

• 1800 - 1880: 1.68m

• 1885: 1.60m

• 1900: 1.52 (=10% reduction)

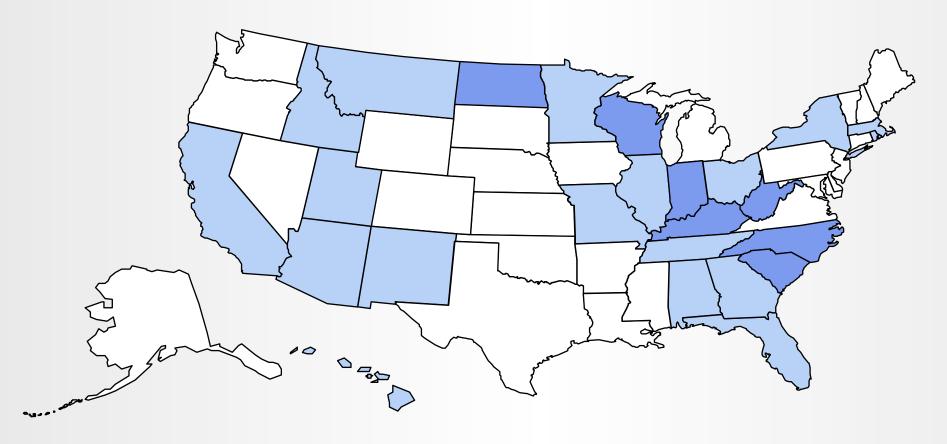






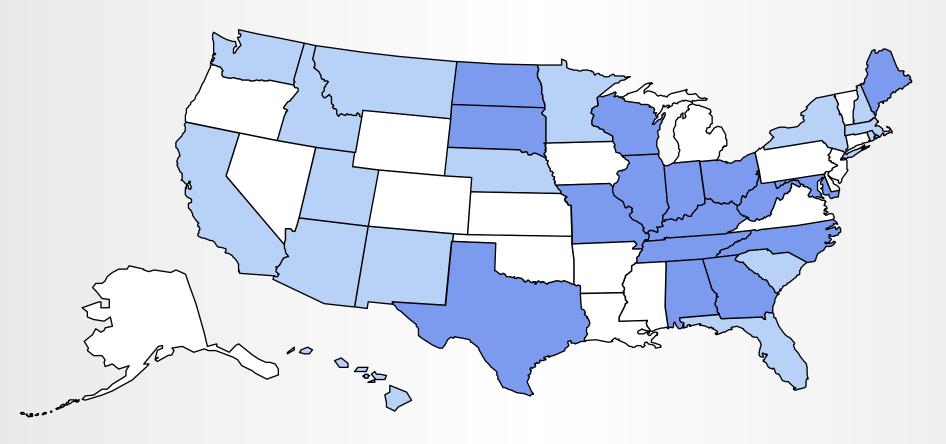
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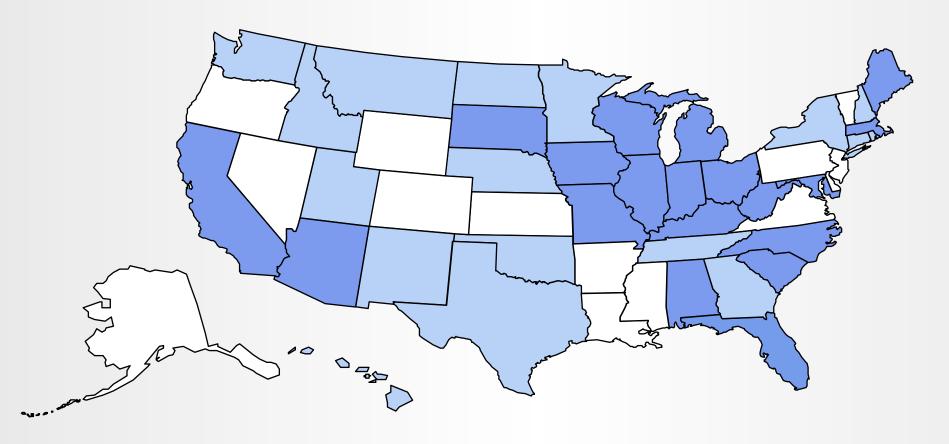






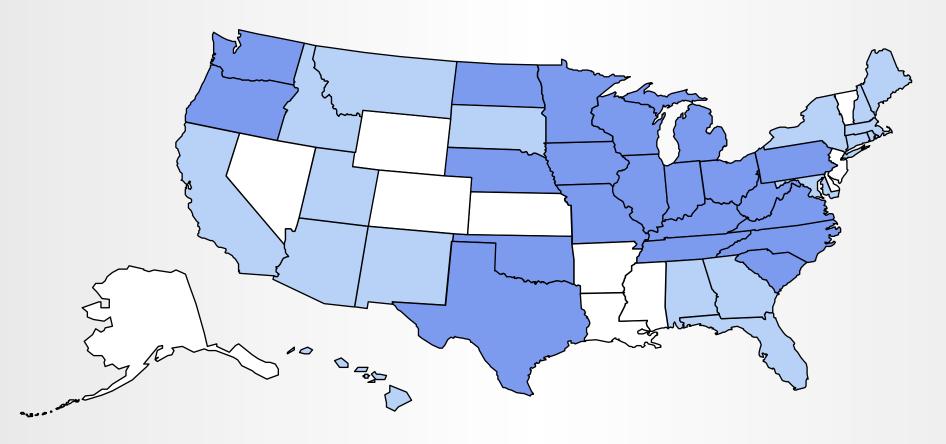
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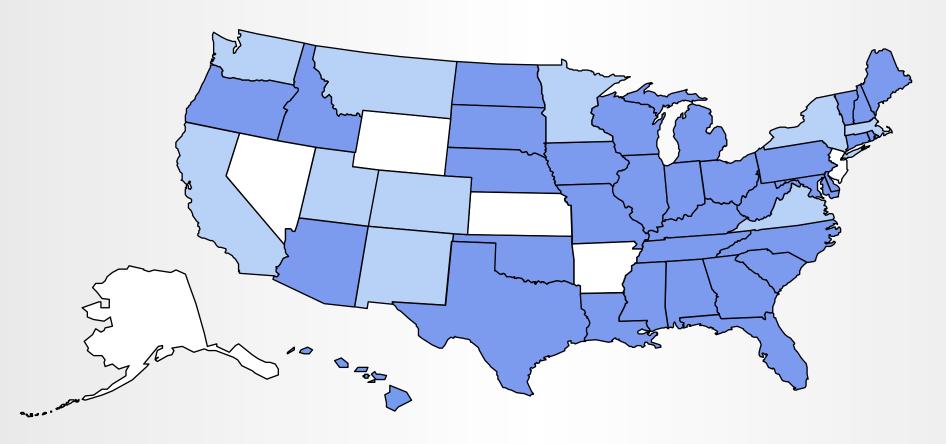






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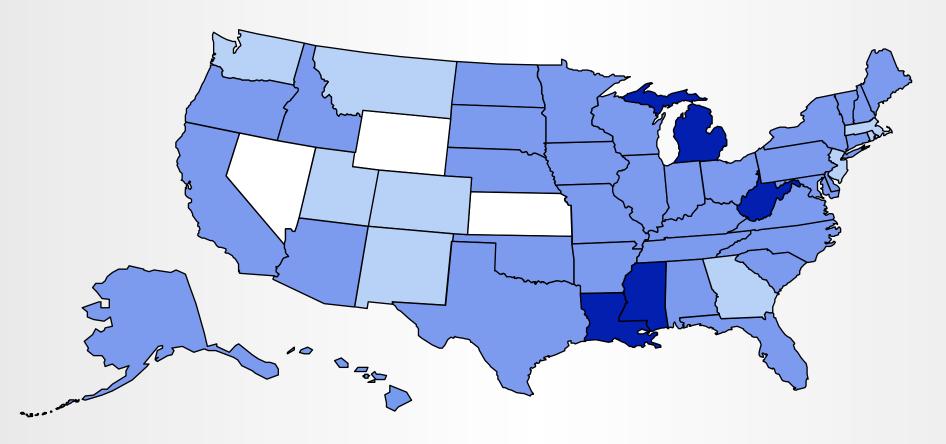






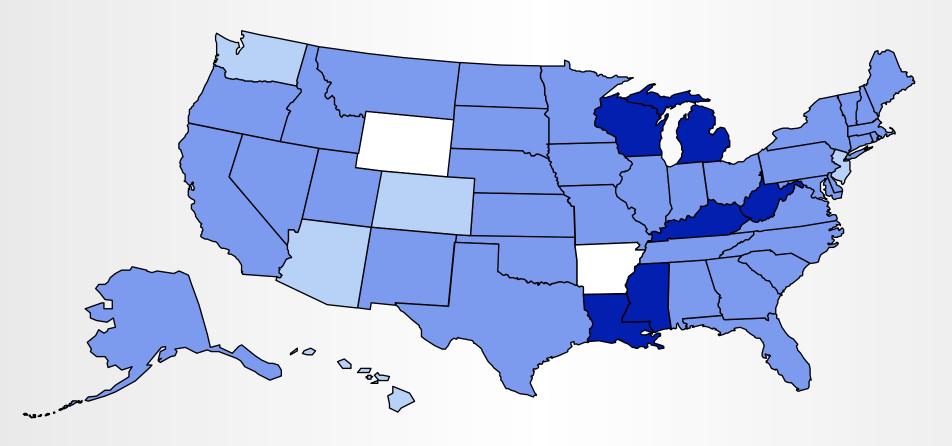
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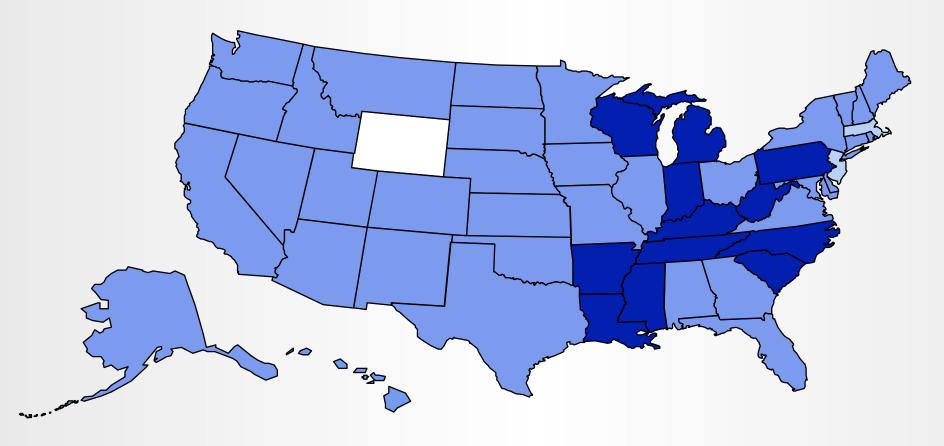








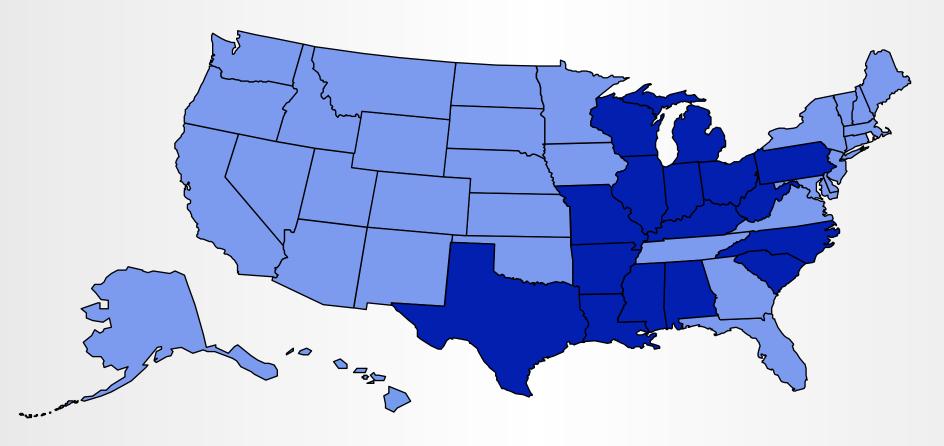






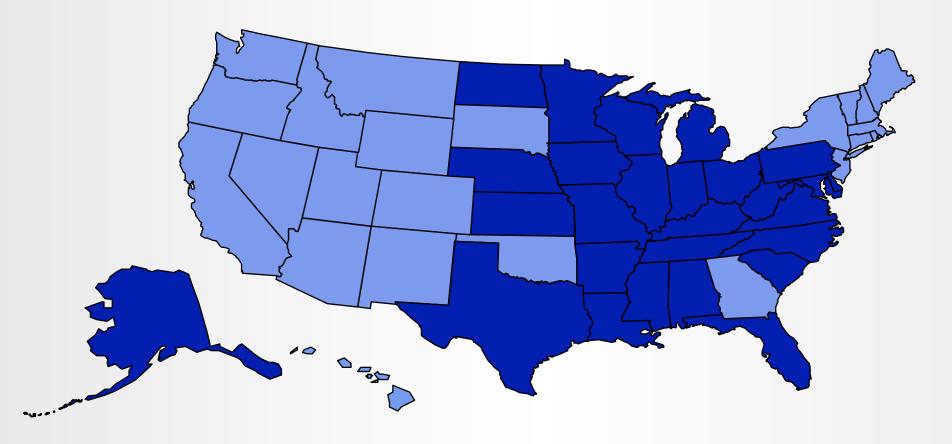
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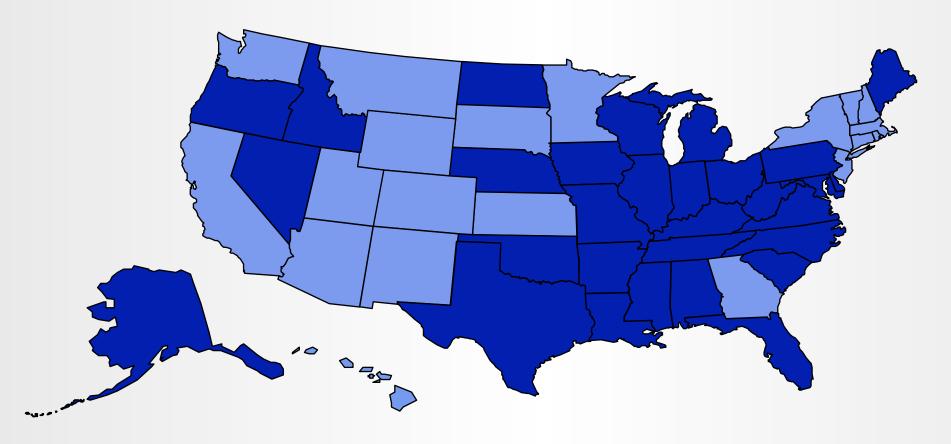






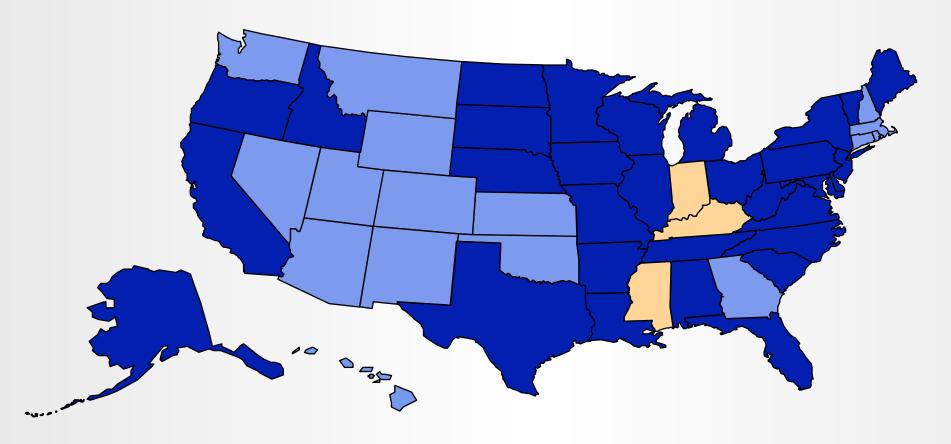






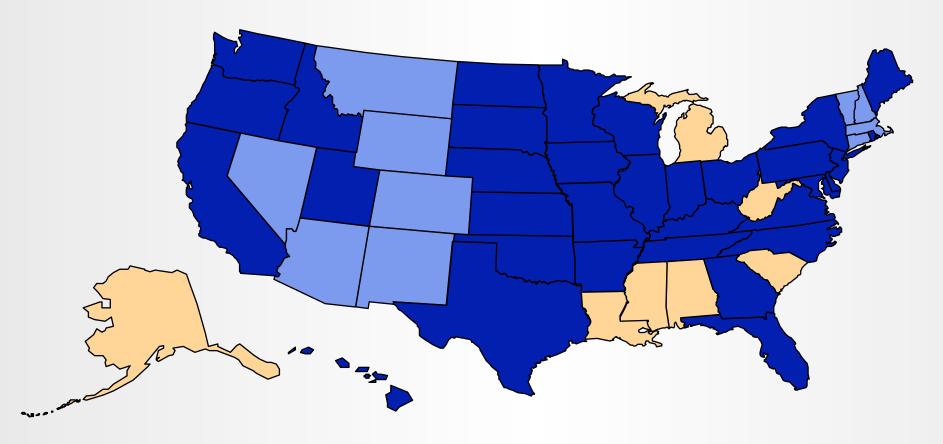








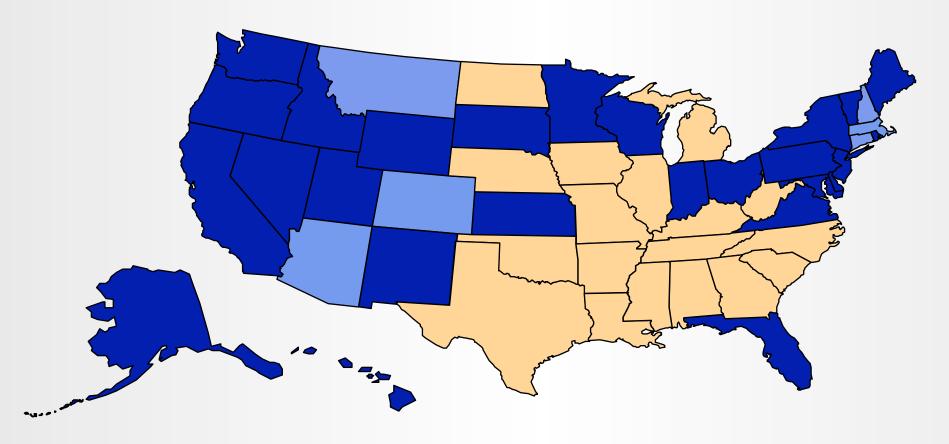






No Data 10% 10%-14% 15%-19% ≥20%

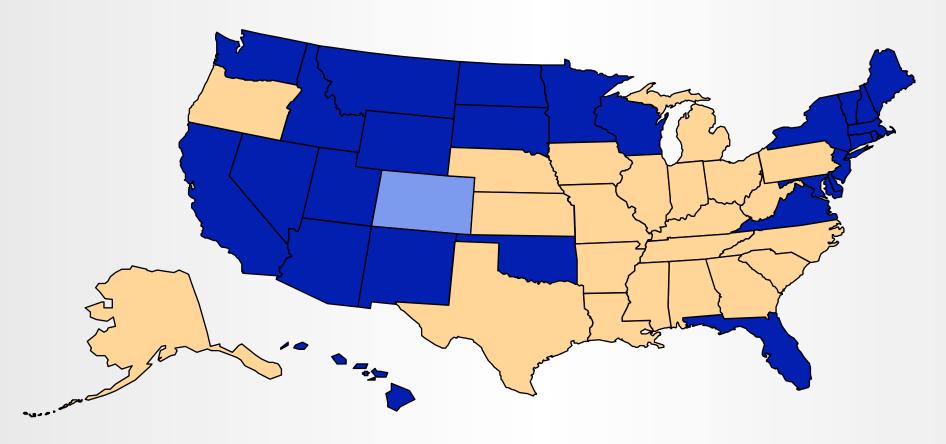






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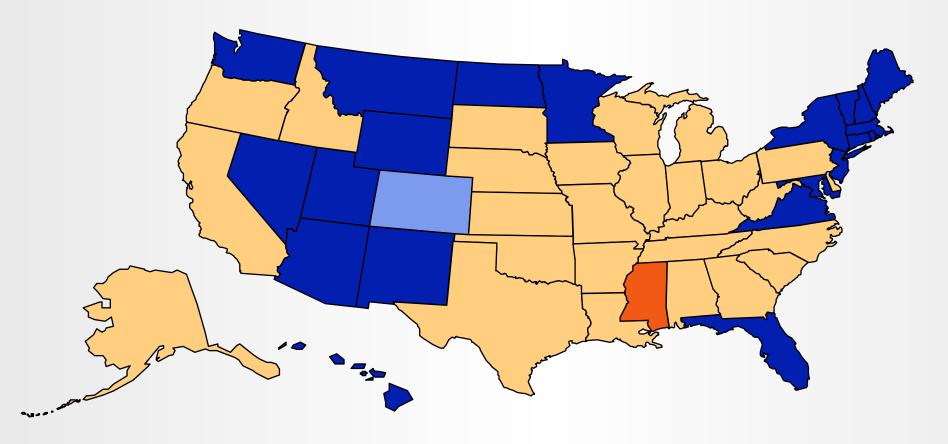






No Data 10% 10%-14% 15%-19% ≥20%





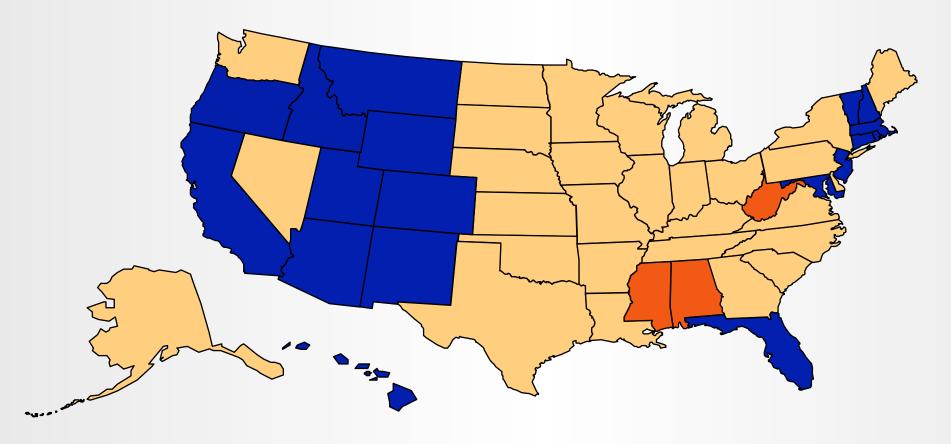


No Data <10% 10%-14% 15%-19%

≥20%

≥25%







No Data < < 10%

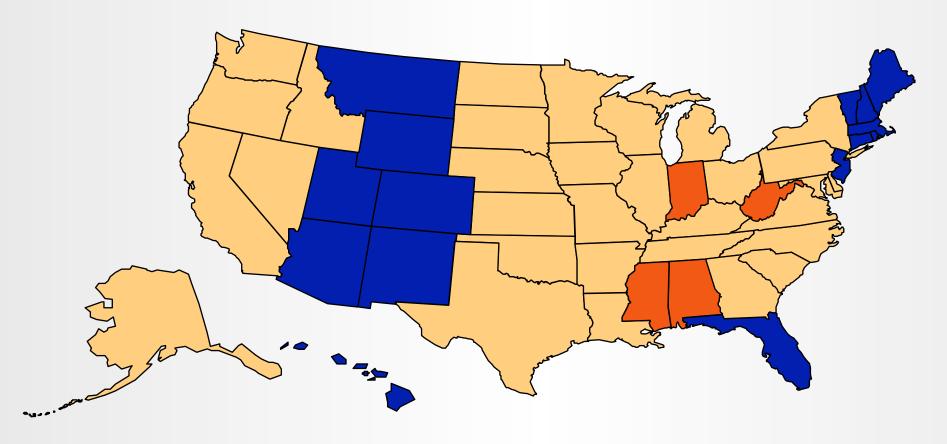
10%-14% 15%-19%

≥20%

≥25%

(*BMI ≥30, or ~ 30 lbs. overweight for 5′ 4″ person)

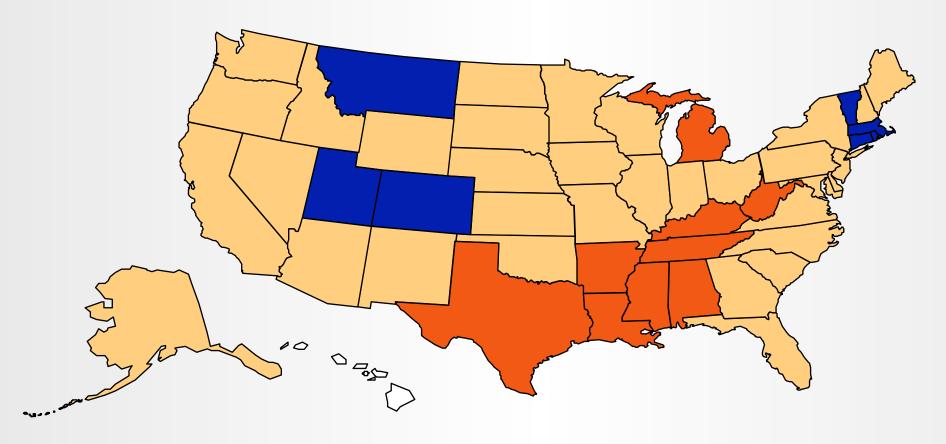






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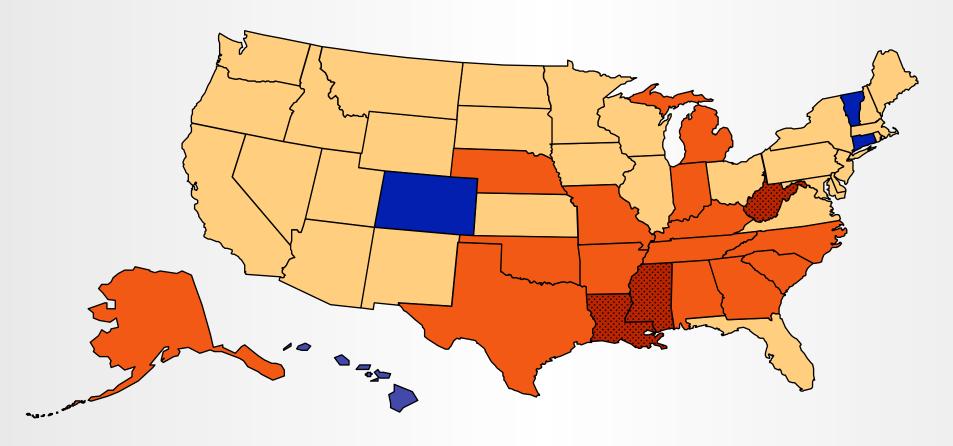




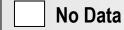


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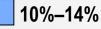


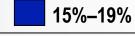




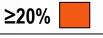








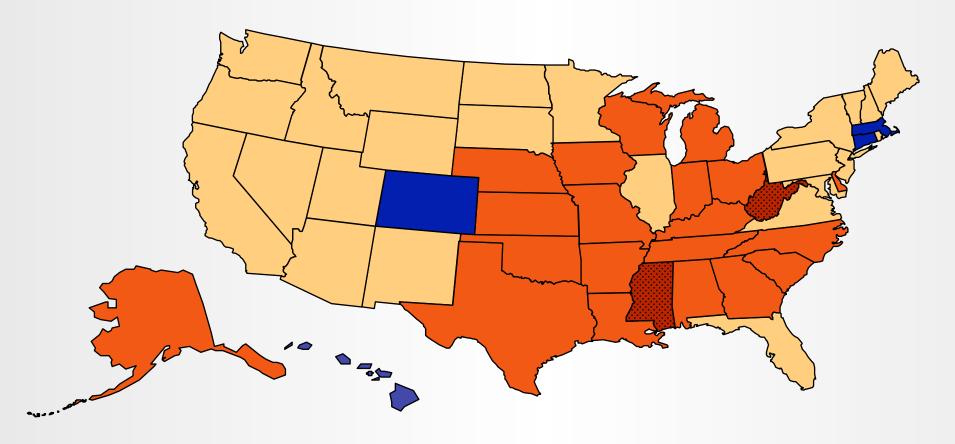




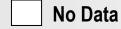








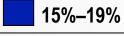








10%–14%

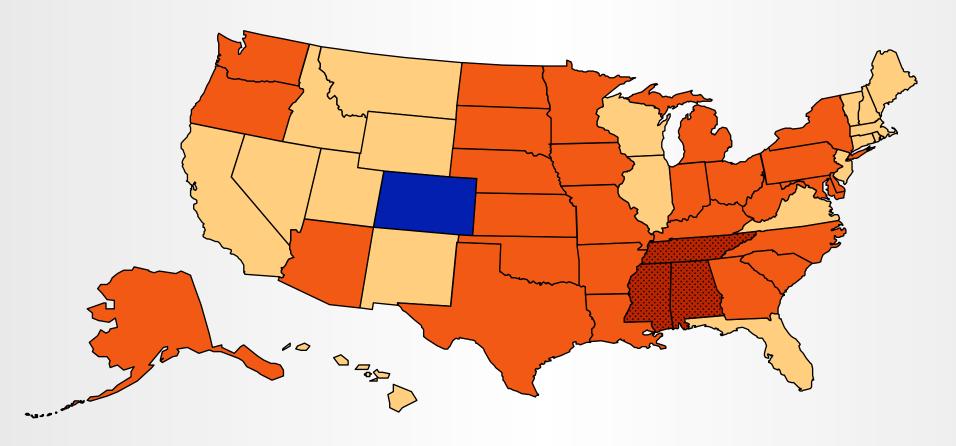




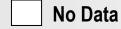




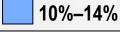




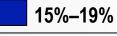






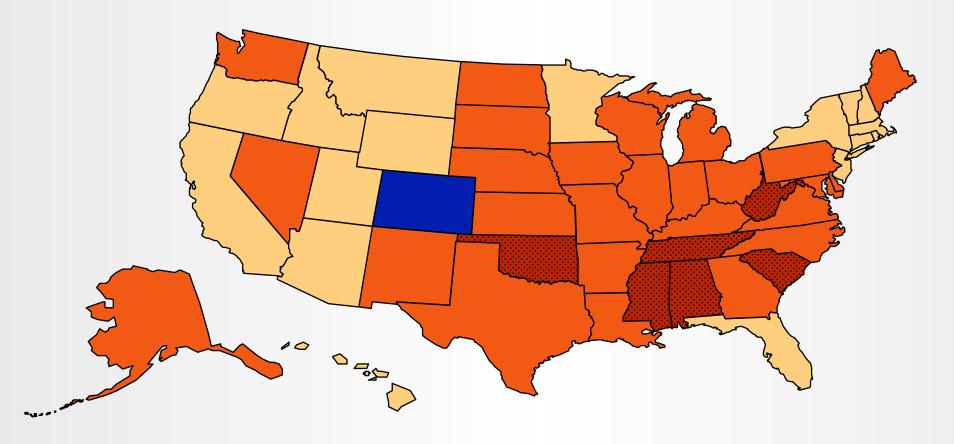




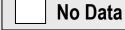








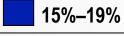








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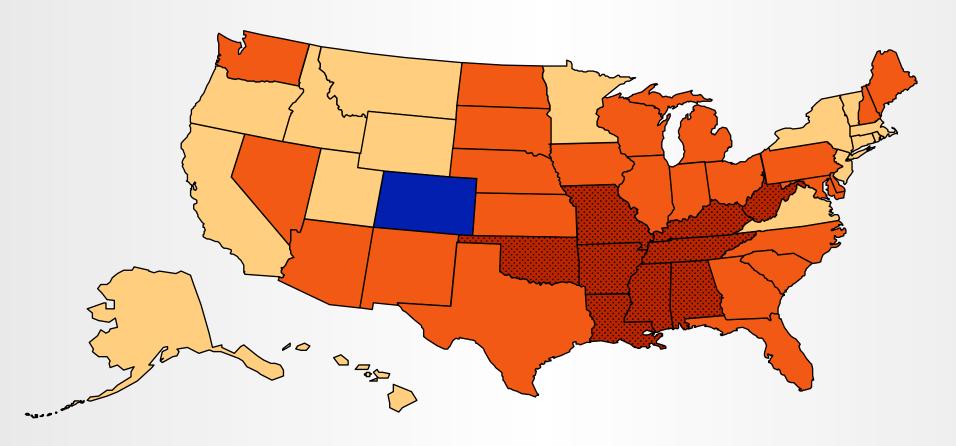




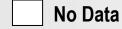








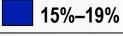








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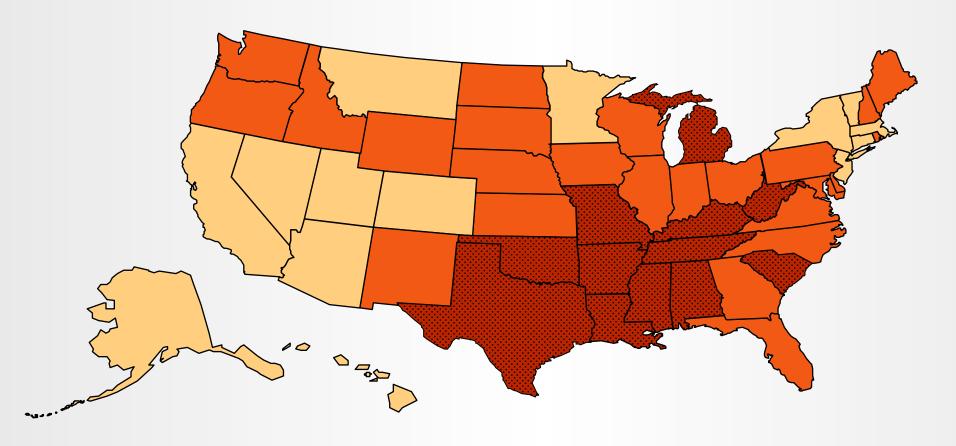




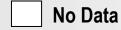






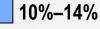


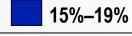


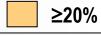










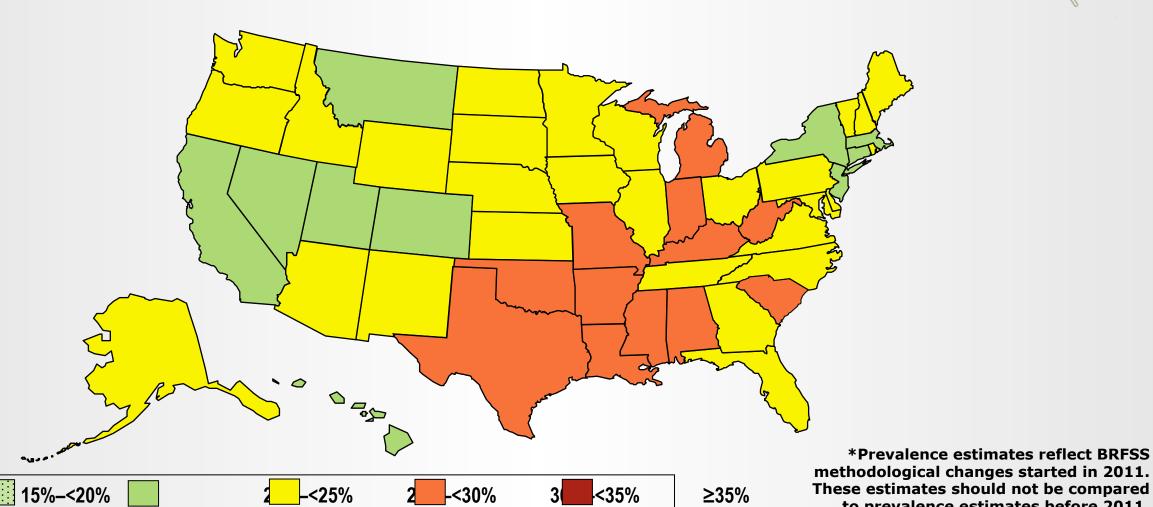








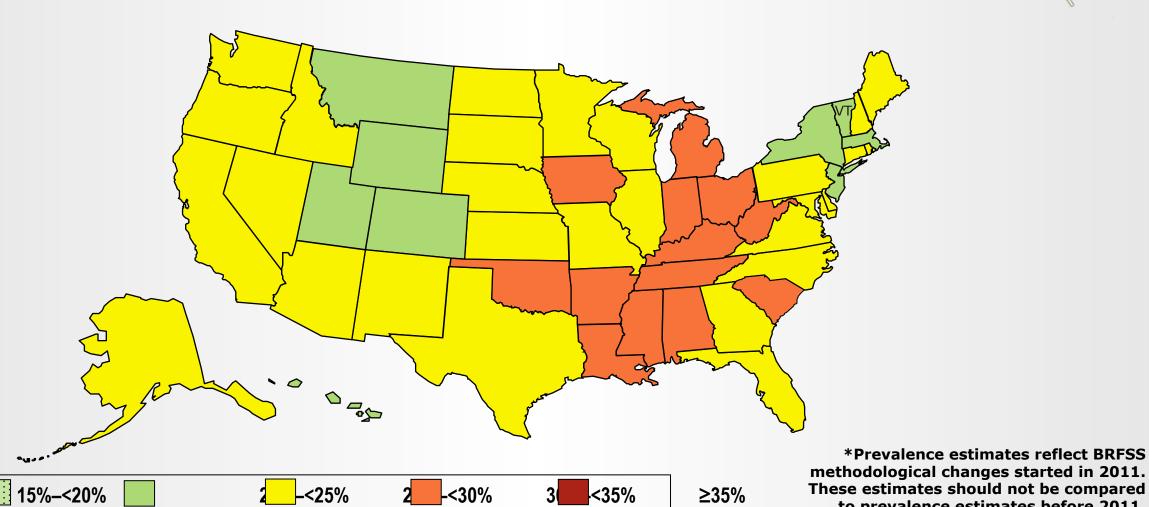
Prevalence* Obesity Trends Among U.S. Adults BRFSS, 2011



to prevalence estimates before 2011.



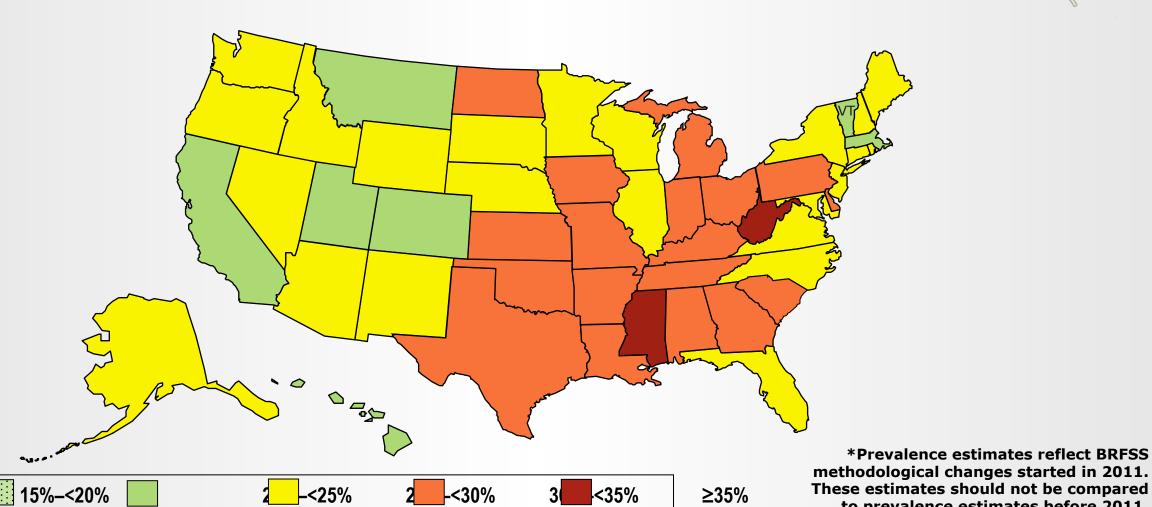
Prevalence* **Obesity Trends Among U.S. Adults BRFSS, 2012**



to prevalence estimates before 2011.



Prevalence* Obesity Trends Among U.S. Adults BRFSS, 2013



to prevalence estimates before 2011.





This must stop!



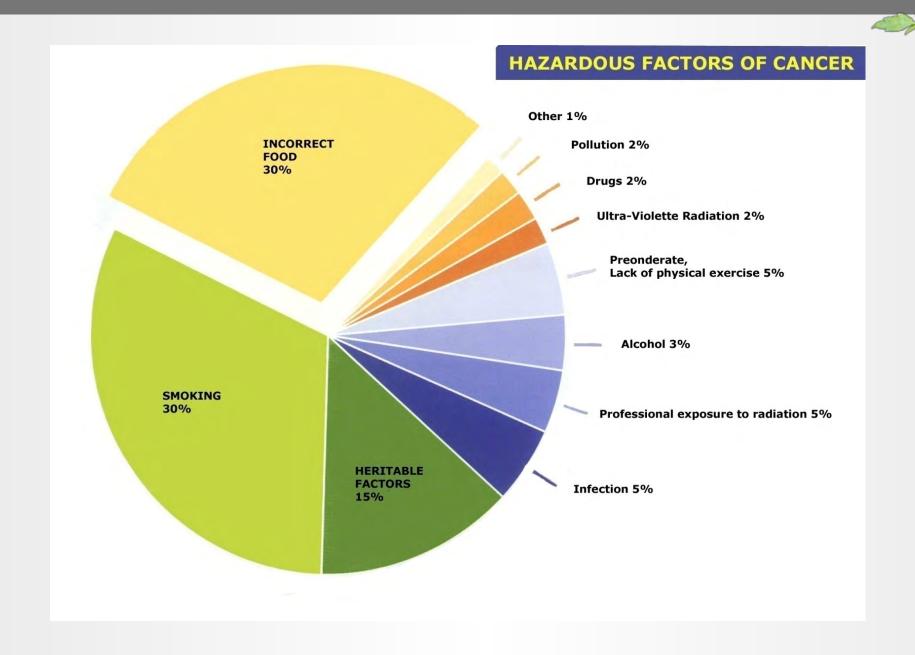


We need a

masterplan

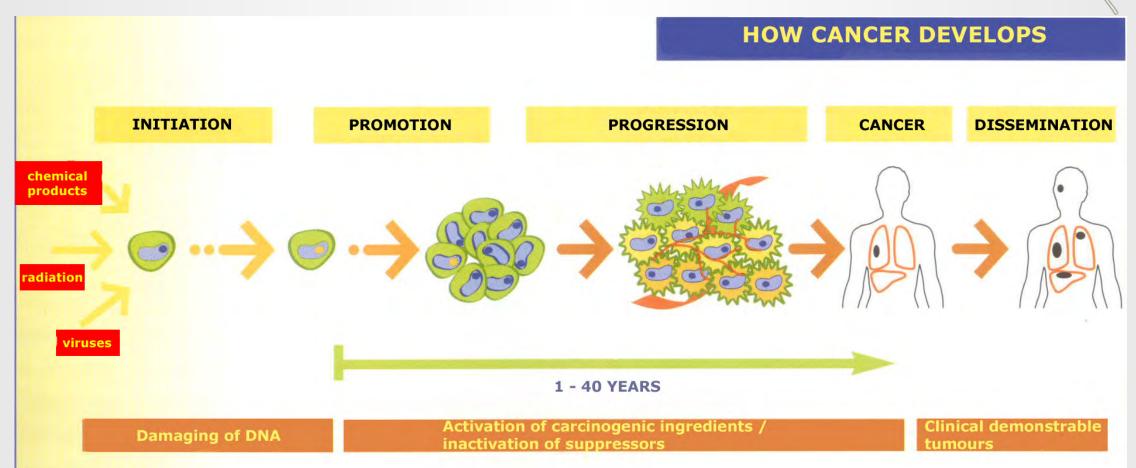
to help new generations with healthy ageing





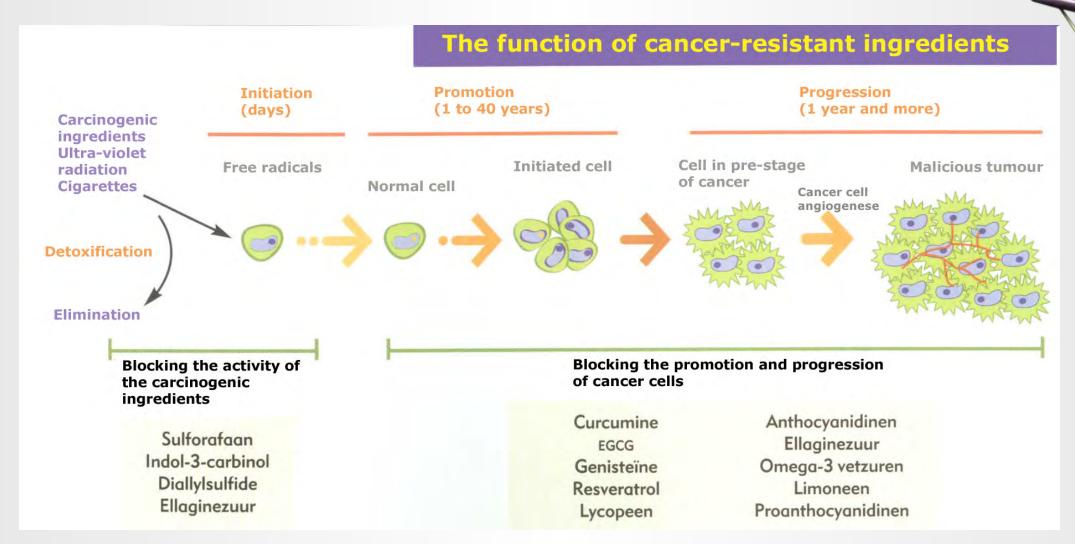














Plants are the closest to our ancient diet

- Holland has the highest level of
 - know how on seeds
 - know how on greenhouse growing
 - expertise in vegetables and distribution

We have great agricultural and medical universities





Help

Dutch government is waking up







"Towards a food policy:

policy that takes into account the different values concerning food, the cohesion between production and consumption and the ever changing power relations within the food system". Scientific Council for Government Policy

(The Netherlands, 2014).



"Dutch government can not separate the economic value of the fruit and vegetable sector from public interest.

The Scientific Council for Government Policy advised us to introduce a broader food policy with special attention to health and sustainability. Before the end of the summer, the government will officially respond to this report.

But, I can already say that the ambition of the Vegetable Conference to work together with teachers, doctors, farmers and retailers to inspire Dutch consumers to eat more fruits and vegetables from their own country, fits into the response of the government to this report.





Sharon Dijksma State Secretary of Economic Affairs at Vegetable Conference 2015

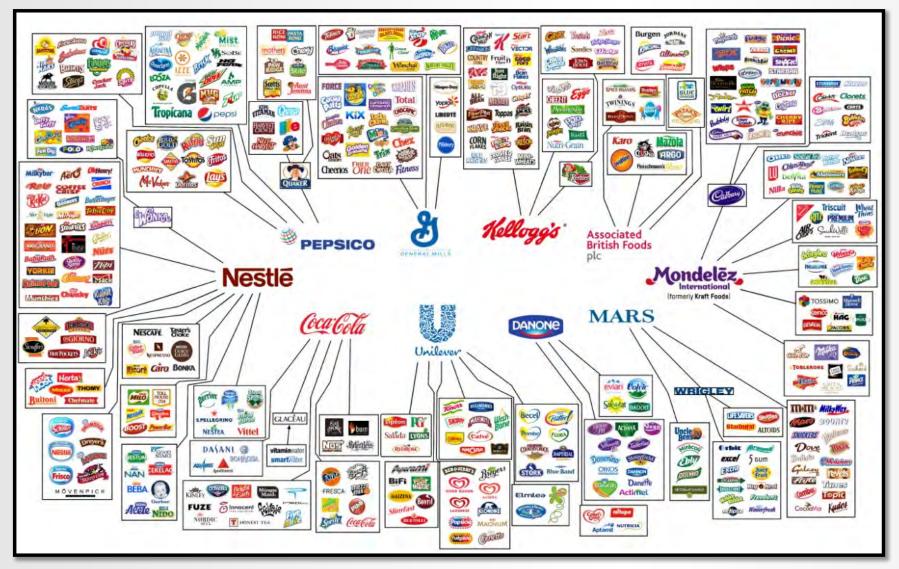








The Big 10





Companies
That Control
Everything
We Eat







What's missing?



Fresh







List Approved ThankYouNature products



Product

Red Onion **Broccocress** Plumb tomato Cherry tomato Carrots Egg plant Blue berry Green paprika Orange paprika Spinach Raspberry Green cabbage Winter carrots Broccoli Red Berry Sweet paprika

quercetine sulforaphane lycopene lycopene **B**-carotene folic acid anthocyanes vitamine C vitamine C luteine anthocyanes luteine **B-carotene** sulforaphane anthocyanes vitamine C

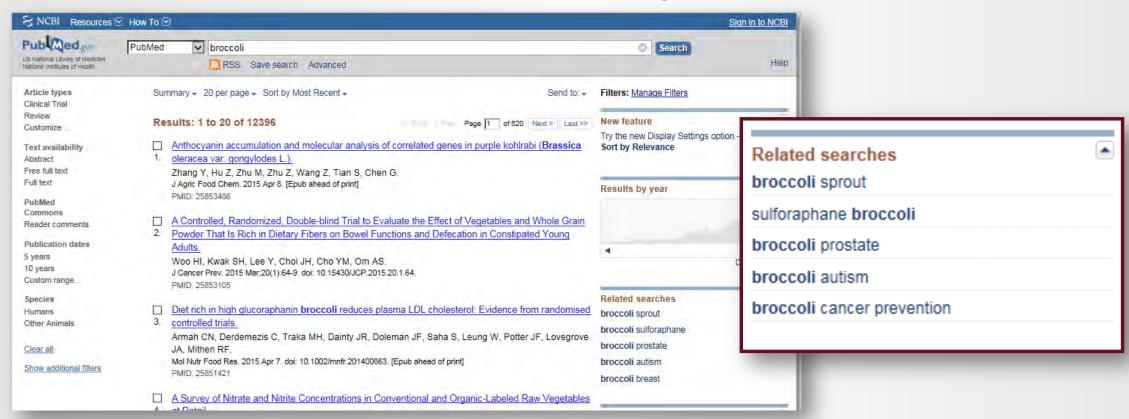






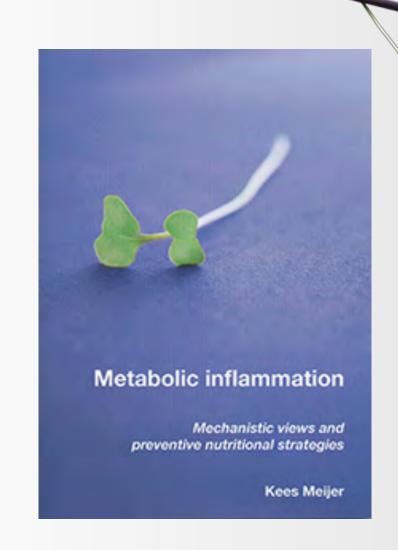
My focus: sulforaphane level

 12396 published studies on the positive relationship Broccoli and health on Pubmed.gov





Broccoli protects against type 2 diabetes and heart and vascular diseases





Broccoli Sprouts and Autism

Preliminary evidence for the **first treatment for autism** that improves symptoms by correcting underlying cellular problems

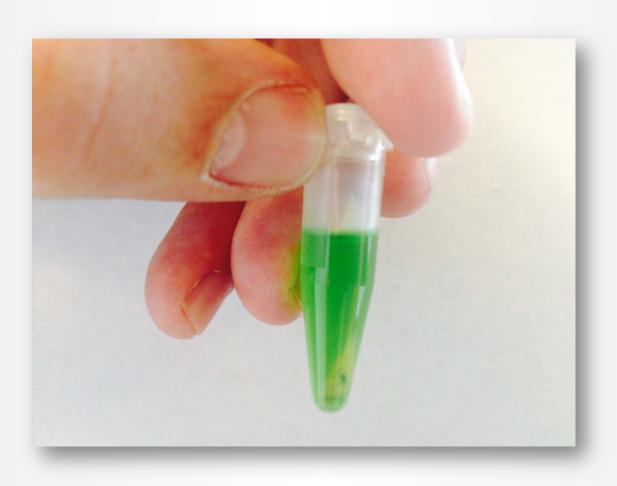
In a placebo-controlled trial, sulforaphane derived from broccoli sprouts eased autism symptoms in nearly half of the 40 boys and men treated

- significant improvements in social interaction
- significant improvements in verbal communication
- substantial decreases in abnormal behaviors





Broccoli test







Sulforaphane level





Broccoli (fresh): 0,2 mg / 100 gram
Broccoli (stir-fried): 0,1 mg / 100 gram
Broccoli (steamed): 0,1 mg / 100 gram
Broccoli (boiled): 0,01 mg / 100 gram



1 sprout BroccoCress®: 0,13 mg



We can do it



combine

Medical research

with

Plant research for fresh produce



We have to do it



In order to reduce health costs

To promote healthy ageing





Increase in average healthcare spending

 The right food (choice) can prevent a large scale of the lifestyle related diseases

Obesity	95%

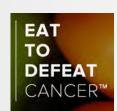
- Type 2 diabetes 80%
- Heart and vascular diseases 40%
- Cancer 50%







THE OMNIVORE'S DILEMMA



DE HONGERIGE

STAD

the vondsel out leven vontal





















OERsterk



De 45 MEEST

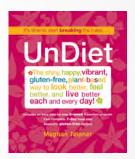
GROENTEN

GENEESKRACHTIGE

THOMAS DIKMAN















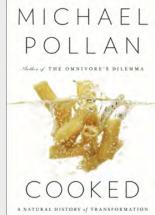
Die Küche als Apotheke der Natur



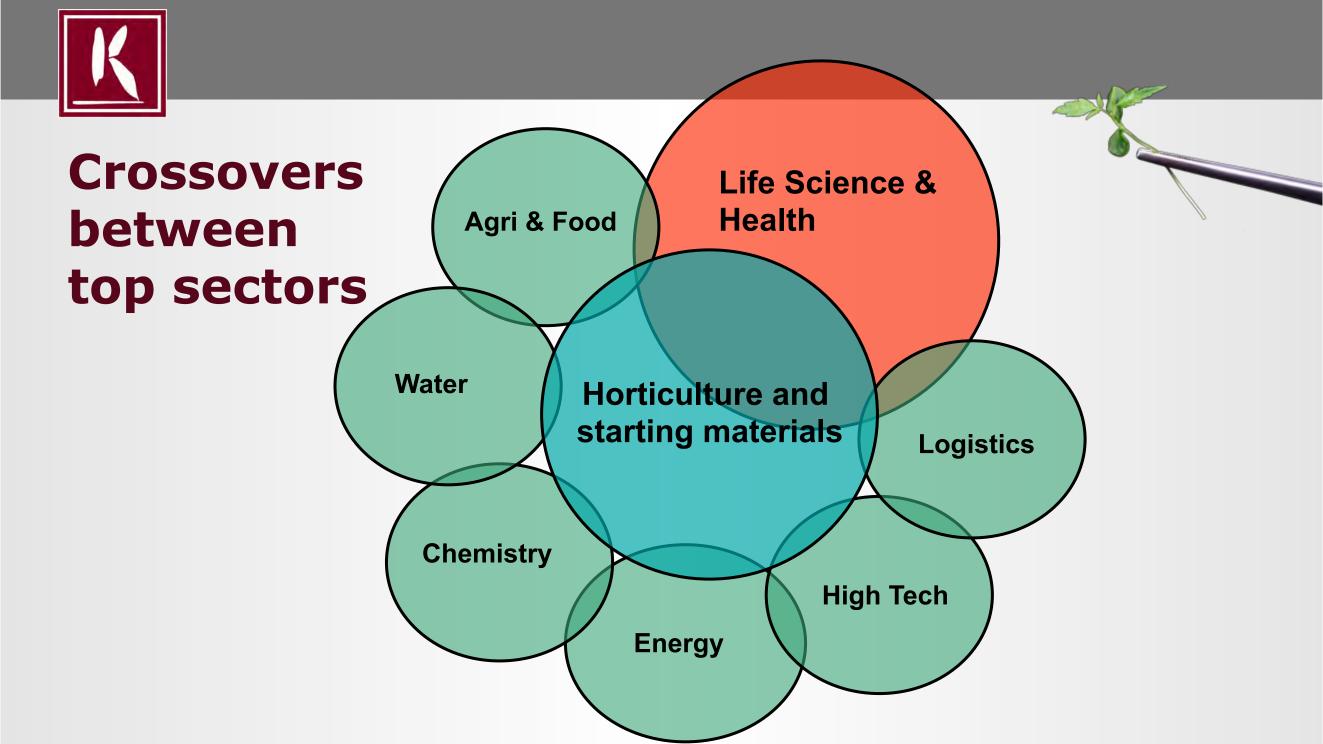


FOOD, INC.











We need a stimulator

Food Agriculture

Ministry of Ministry of Fresh Food & Health

Human Ministry of Health

Fresh Food is not just an economic affair Fresh Food is HEALTH!



Restaurant derives from restore

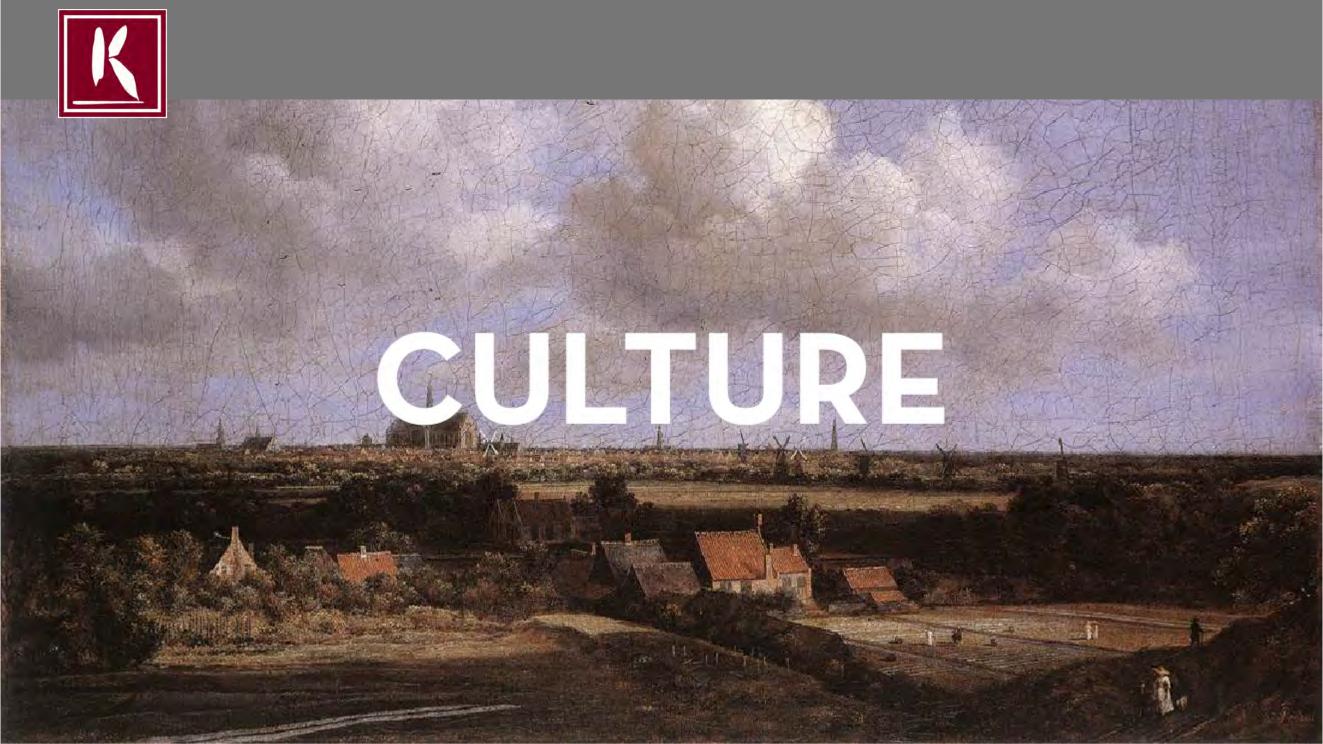
[res-tau-rant (rst-ränt, -tr-nt)n. from present participle of restaurer, to restore, from Old French restorer; see restore: to bring back to or put back into a former or original state (Medical Definition of restore)]



DUTCH CUISINE - 80/20



Rediscovering the Dutch kitchen where vegetables are leading













BINDING FACTOR





For everything comes together on the plate..







How can we feed 9 billion people?







How can we create value for horticulture?







How can we move away from an agricultural policy towards a food policy







How can we put preventing before treating?







How can we give 'going Dutch' a new meaning?









Markthal Rotterdam







- World population is growing 9 billion people 2050
- Farmers are getting broke because of low prices
- Supermarkets make huge margins on V&F.
- Consumer eats less V&F
- Bulk production of average quality due to low pricing
- Educated consumer wants products which are not available









Everybody knows

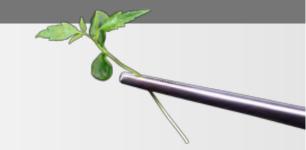
Nobody does





food





Fresh Food = Health

Inspired by

Richard Béliveau, Denis Gingras, Michael Pollan, Michael Moss, Carolyn Steel, John Charlton, Paul Clayton, Judith Rowbotham, Paul Talalay, Jaap Seidell, Kris Verburgh, Ralph Morren, David Servan-Schreiber, Suzanne Poot, Leonard Hofstra, Jaap Seidell, Meghan Telpner, Richard de Letter Growers in 90 countries and many others