

Tow Agroplus 2006



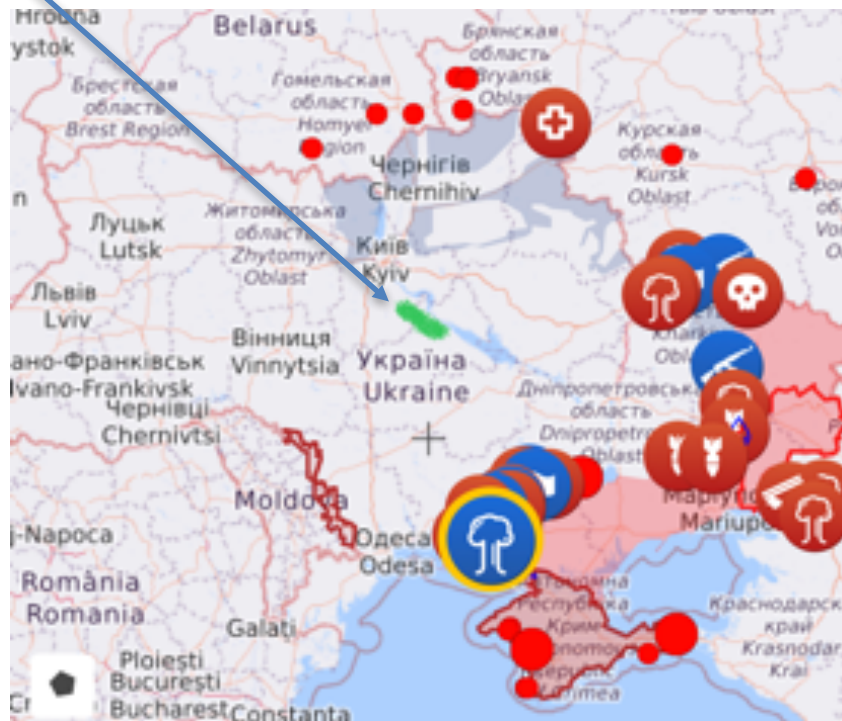
System Timoshivka –Pig farming w/o antibiotics for a Healthy future

Tow Agroplus 2006

Slava Ukraini
Gerojam Slava



- Austrian owned Agricultural Company in Cherkassy
- Since 2006 agriculture (1200ha)
- Since 2011 pigfarming (9000 pigs/a)
- 35 employees (incl. security)



Vision

- Meat produced without antibiotics becomes new safety standard in meat production
- Animal farming without antibiotics (only therapeutic) becomes established widespread production standard Worldwide and helps to reduce problem of antibiotics resistance and to save millions of lives
- New approach in animal farming redefines also nutrition habits of mankind – less cheap bad quality, more expensive high quality
- **Agroplus is in 2026** strong healthy food technology company, #1 for healthy food/ meat production in UA and #1 animal care, with 3 own farms (laboratory farms) and 10 partnership farms



Importance of meat

- Meat is composed of protein and amino acids, minerals, fats and fatty acids, vitamins and other bioactive components, and small quantities of carbohydrates.
- From the nutritional point of view, meat's importance is derived from its high quality protein, containing all essential amino acids and its highly bioavailable minerals and vitamins
- High qualitative food strengthens the body/ immune system

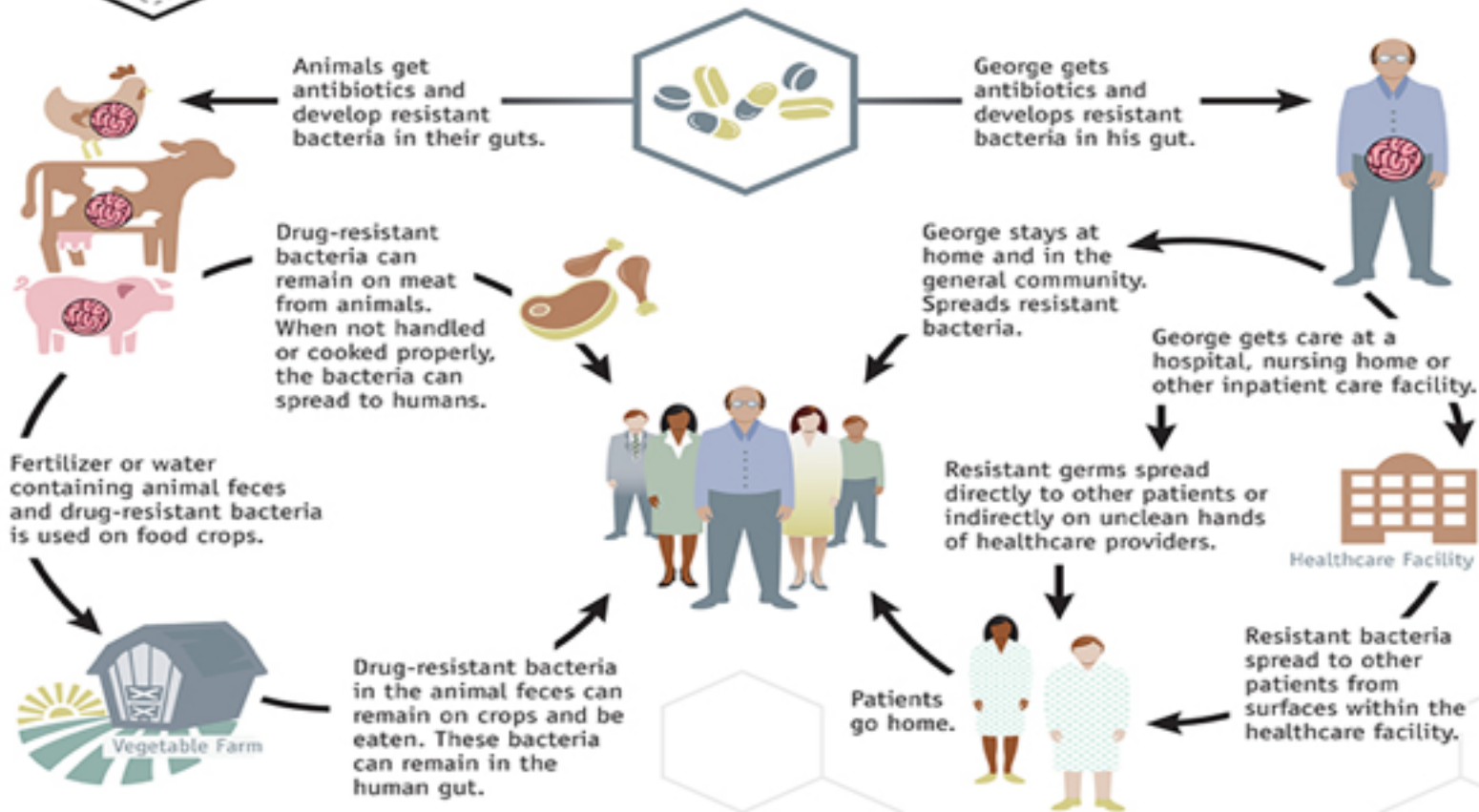
Problem of antibiotics abuse



- Antibiotics resistance serious problem for mankind, more than Covid
- 700.000 dead/ year due to antibiotics resistance, by 2050 10mio/year
- Costs of 2-4% of world BNP
- **No surgery possible without antibiotics (cancer, HIV, other with weak immune system very endangered) (www.antibioticguardian.com)**
- Extensive use in human medicine and in animal farming main causes resistance
- Believe that mass production of animals without antibiotics not possible – mass production necessary to feed the world (50% of all antibiotics used with animal farming (of these 75% in China, USA, Brasil & India)
- Almost now new antibiotics invented

The b(p)ig problem

Examples of How Antibiotic Resistance Spreads



Simply using antibiotics creates resistance. These drugs should only be used to treat infections.

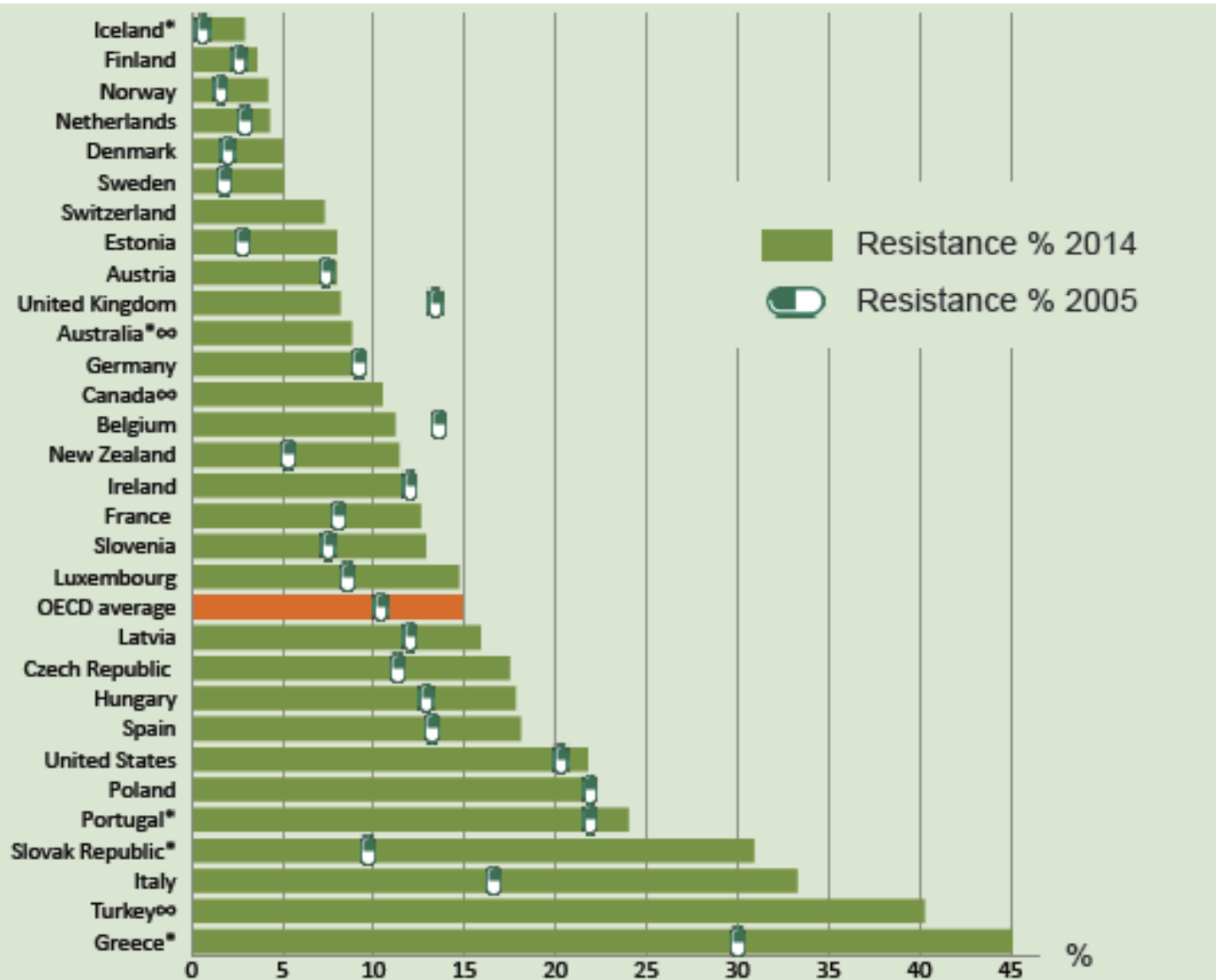
Antibiotics resistance

Six high-priority bacterial-antimicrobial resistance combinations were aggregated within each country by use of the arithmetic mean. The included combinations were: E.coli (resistant to 3rd generation cephalosporins), E.coli (resistant to fluoroquinolones), K.pneumoniae (resistant to 3rd generation cephalosporins), K.pneumoniae (resistant to carbapenems), S.aureus (resistant to methicillin), S.pneumoniae (resistant to penicillin). Data from 2014 (or latest available data) and 2005 (or 2006 if not available).

*Greece missing S.pneumoniae (resistant to penicillin) 2005 and 2014, Slovakia and Belgium missing K.pneumoniae (resistant to 3rd generation cephalosporins and carbapenem) 2005, Portugal missing K.pneumoniae (resistant to carbapenem) 2005, New Zealand missing MRSA 2014, Australia missing S.pneumoniae (resistant to penicillin) 2014, Iceland missing K.pneumoniae (resistant to carbapenem) 2014.

∞Includes resistant and intermediate data

Source: ESAC-Net Database and CDDEP



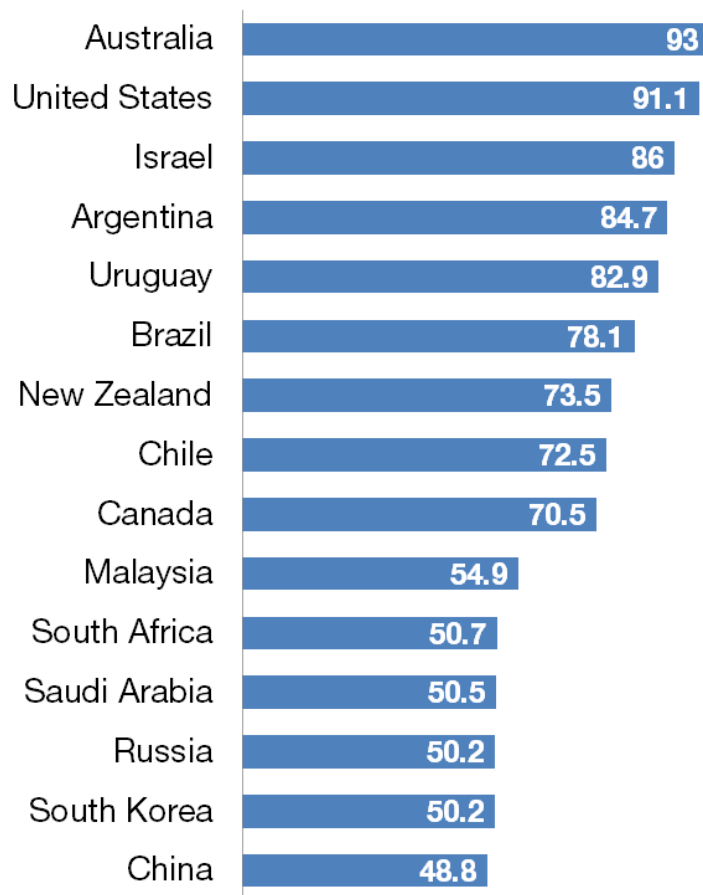
Growing meat consumption



Top meat eating countries



Kilograms per capita, per year, 2013



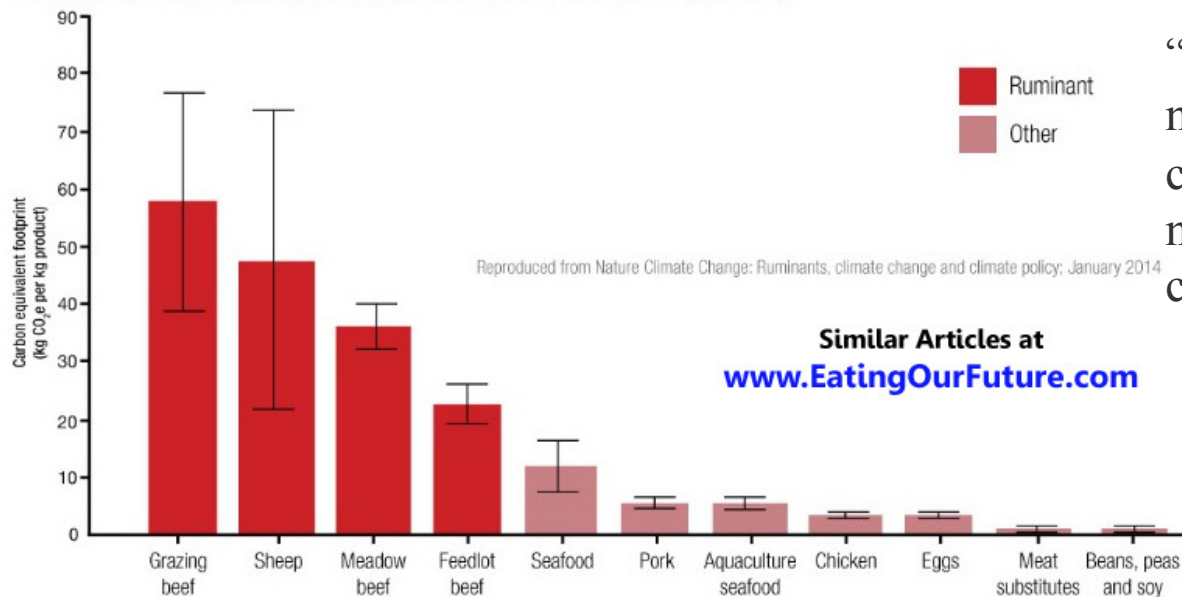
- growing populations is not such a big problem for nutrition and climate as per capita meat consumption growth from 40-50kg to 90kg
- **Global middle class eats too much meat**
- Meat is too cheap!

Source: OECD

Climate change & Meat

"The world is faced with the herculean task of trying to limit warming to 2 degrees C ... the point at which climate change is expected to get especially dangerous, leading to mega-droughts, mass extinctions & a sea-level rise that could wipe low-lying countries off the map..."

YOUR FOOD'S CARBON FOOTPRINT

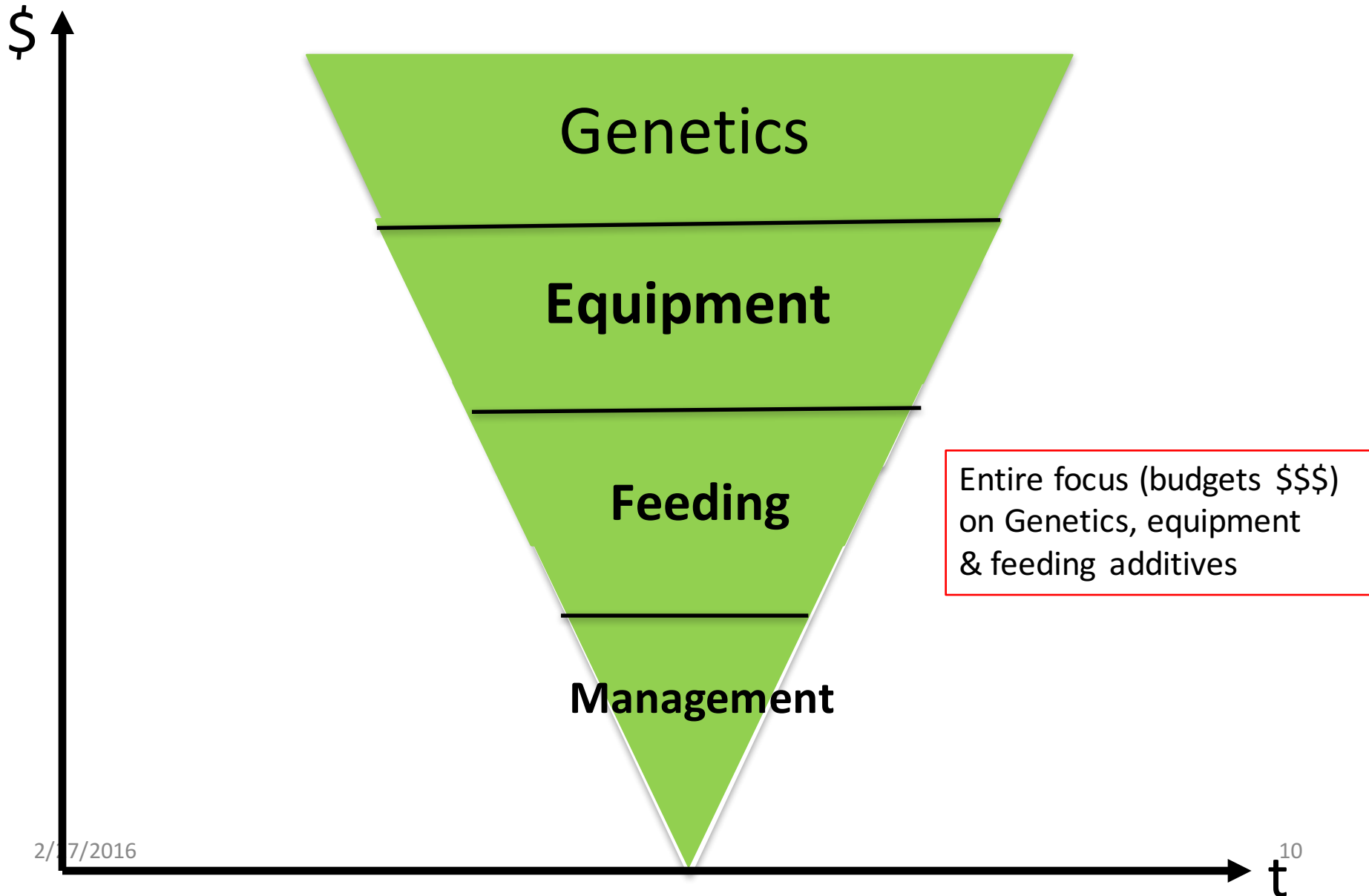


“Welcome to the number 1 climate change driver, its not the car but the cow!”

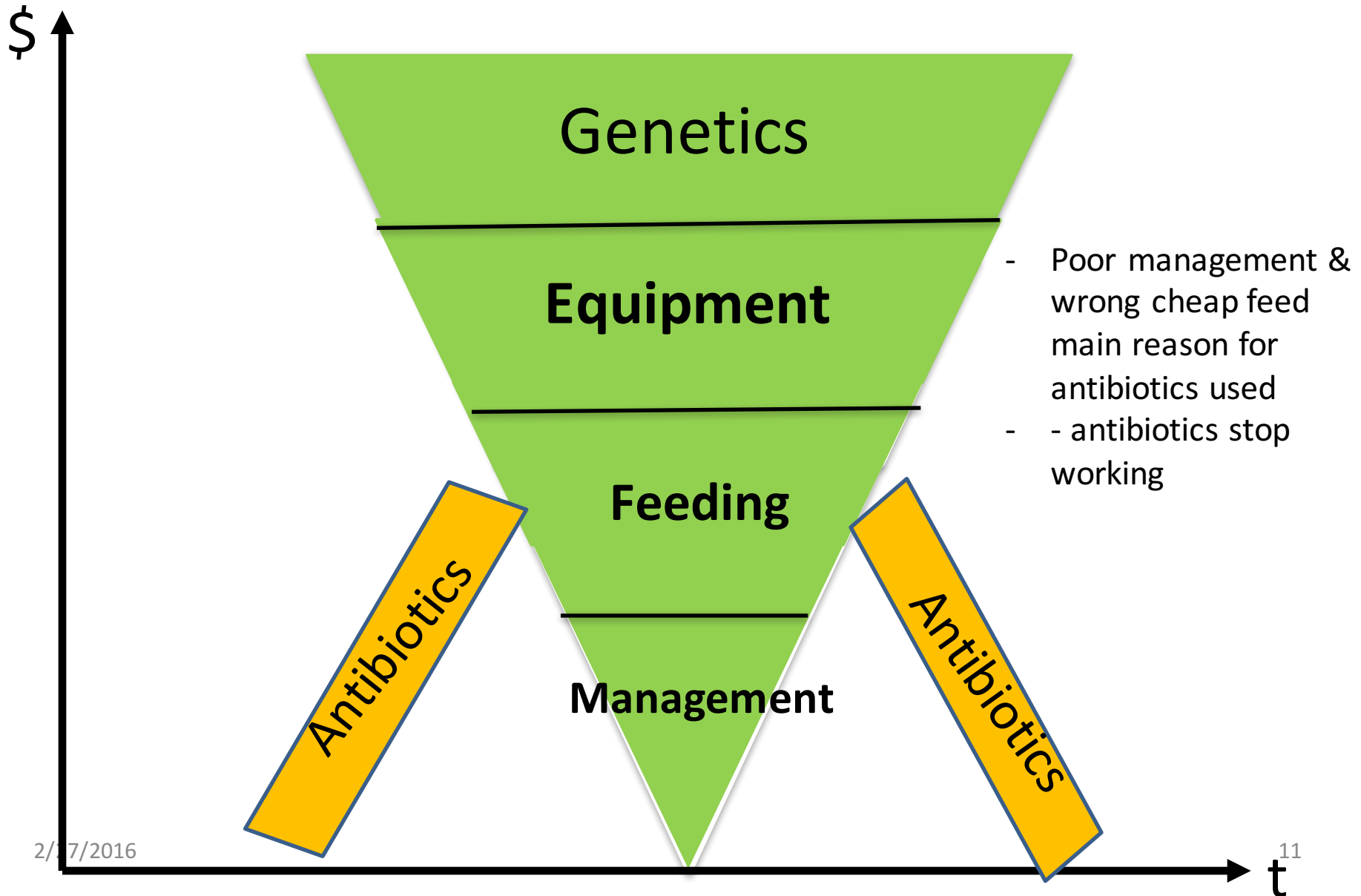
"Globally, 14.5% of all greenhouse gas pollution can be attributed to livestock, according to the U.N. Food & Agriculture Organization... a huge chunk of the livestock industry's role - 65% - comes from raising beef & dairy cattle... About 70% of this planet's agricultural land is used for livestock production... In the Amazon, cattle production accounts for an estimated 50% to 80% of all deforestation... Beef is ... a hopelessly selfish, American indulgence; a middle finger to the planet... Would you stop eating beef to save the planet?..."

For source article Google: "CNN Climate Change Why Beef is the new SUV 2015-09-29"

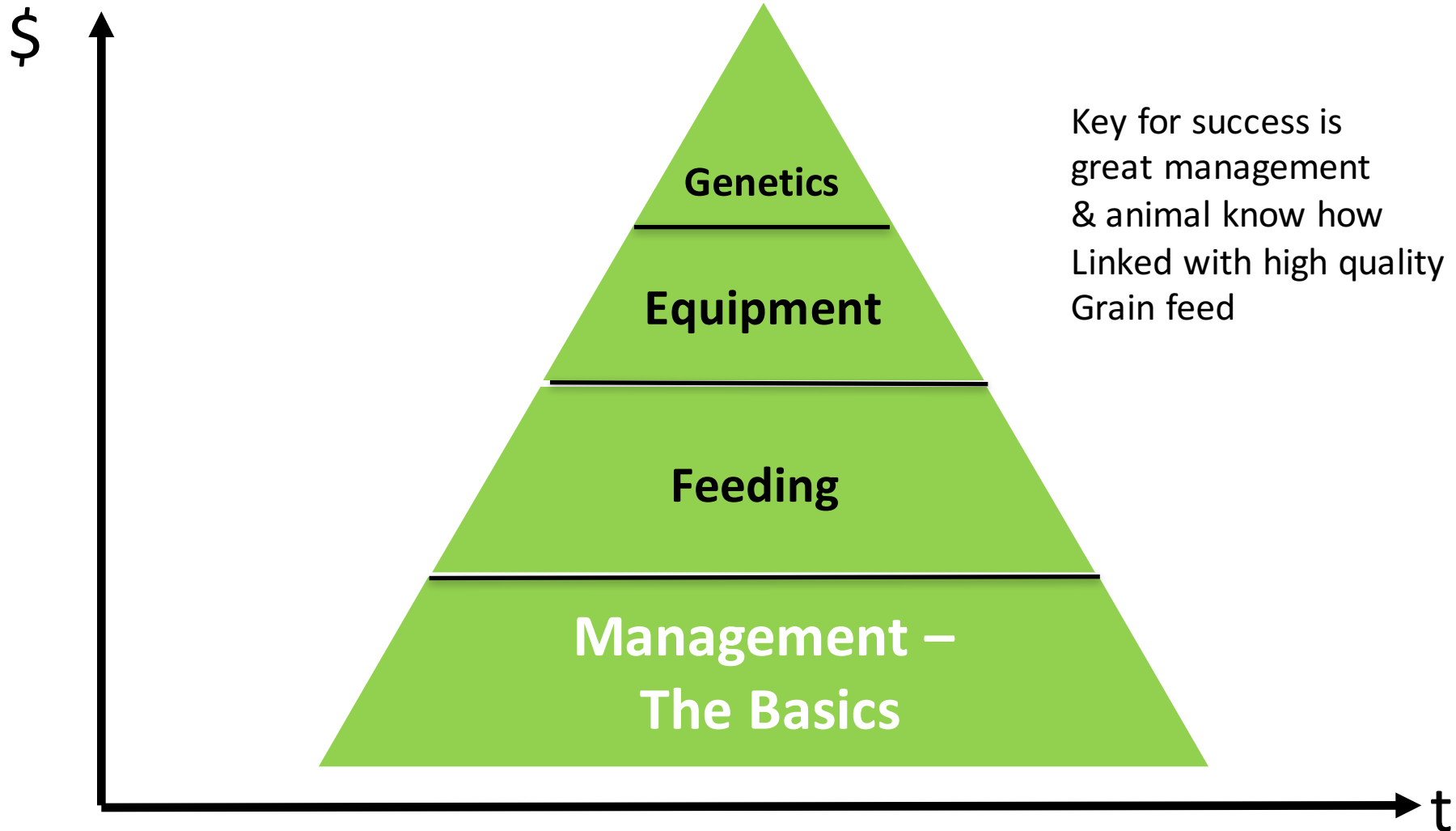
Pig farming industry today



Pig farming industry today



Right priorities -> high performance



Pig production Agroplus

- Full cycle production: mother sows, piglet production, fattening till 115kg
 - Due to cycle production herd immunity stable
- Production without any prophylactic antibiotic use.
 - No use of antibiotics in the feed (forbidden in Europe)
 - No use of antibiotics in the water
 - Only 2% of all pigs ever treated with weak antibiotics for therapeutic reasons. pigs are marked & separated from the herd and sold as normal pigs
 - No use of probiotics or other vitamins to compensate antibiotics, only highest feed quality, strong animal care & production management and modern facilities!!!



People Management



Road signs on Culture



- Every subtitle, explanation to be bilingual in Ukrainian and English
- Kamianka was 2017 the first city (rayoni Centre with 15.000 inhabitants) where all museums (3) are bilingual.

Cultural initiatives as part of company HR - Algorithm



1. Fulfill **basic needs** of your employees at workplace (clear job descriptions, satisfying salary, trainings)
2. **Add** to this **culture**: visit museums, do reflection sessions, start at your surrounding so that employees know their village, city, oblast
3. Result: **higher satisfaction**, less work force rotation, higher responsibility awareness -> **higher productivity and profit** -> higher investments = growth

HR & cultural Heritage

- HR is not only recruiting, salary, entertainment
- HR is a about culture
- Use culture heritage to lift your companies culture, because it gives identity, it connects people and it activates their sleeping potential (especially soft skills)

Pig & Farm Management



Feeding Management



Genetics



Results

- Paradigm change, pig production w/o antibiotics possible
- Unique in Ukraine and non Scandinavian countries at these size of 450mother sows
- 11 years w/o antibiotic, less than 2% of all animals ever get therapeutic procurement
- Best and most tasty pork in UA = pork form the Timoshivka farm 😊
- Additional effects:
 - strong immunity
 - Meat quality (water holding, tenderness, taste,...)
 - Environmental impact – almost no smell around the farm
- More than 40 farms in Switzerland started to work with the System Timoshivka – pigfarming without antibiotics 8 years ago

New KPIs in animal farming

- *Forget about biological records, about mega farms, about production and business models of high complexity (= high dependency)*
- Meat quality KPIs
- Price selling KPIs (what is cheap people waste, what is expensive they value) = need for true costs
- **Antibiotic KPI** – veterinary KPI
 - If farm works with less than 3% of antibiotics on the entire farm, no antibiotics substitutions, than the management and concept is really good

Prosciutto

Made in
Ukraine



твo без антибіотиків

Pork Stew

Made in
Ukraine



Not for sale,
Humanitarian help

Europe needs high quality

- High Quality always wins mid and long term!
 - You have a higher price premium
 - Less competition on the price
 - Constant development through quality requirements
 - Quality products can lower their price where cheap products already not can
 - Healthy product is investment into your health
 - Eating is not about filling your belly anymore

SLAVA UKRAINI

GEROJAM SLAVA

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