

Presentation Agenda

- CSSGA Overview
- Mine Safety Institute
- Aggregates Industry Overview
- Colorado Transportation Infrastructure



Colorado Stone, Sand & Gravel Association

- Representing the majority of the construction aggregate producers in Colorado – alliance with CAPA, CRMCA, CCA, ACPA → CIC
- Aligned with NSSGA regarding lobbying, environmental issues, etc.
- 4 main components:
 - Governmental Affairs
 - Land Use & Environment
 - Safety (part 46 Training program with DNR)
 - Education and Community Outreach



Mine Safety Institute

- MSHA implemented P-46 training regulations for metal/non-metal mine in 2001
- CSSGA & Division of Reclamation of Mining & Safety (DRMS) partnered prior to roll out of new regulations
- Expanded to include: Task Training, MSHA 101, Annual Refresher, NMT (Spanish)





National Influence



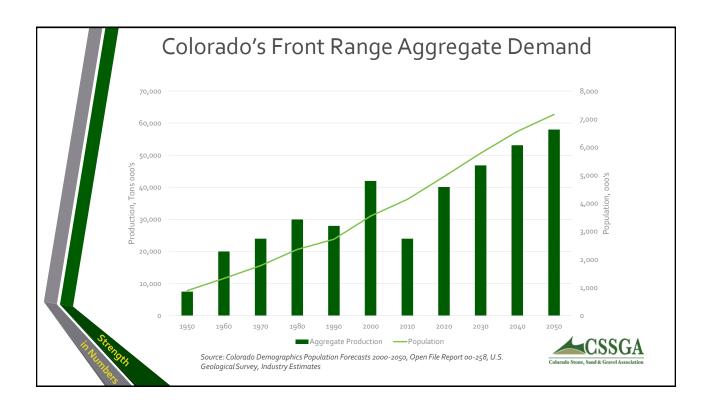
- National program
- Annual Training Materials Competition Award Winners (2000, 2003, 2007, 2008, 2016, 2017)

Aggregate Demand

- U.S. annual production is in excess of 2.25 billion tons.
- Consumption of aggregates:
 - 10 tons per person per year (NSSGA)
- In 2015 Colorado produced 46.7 million tons of aggregate (USGS)



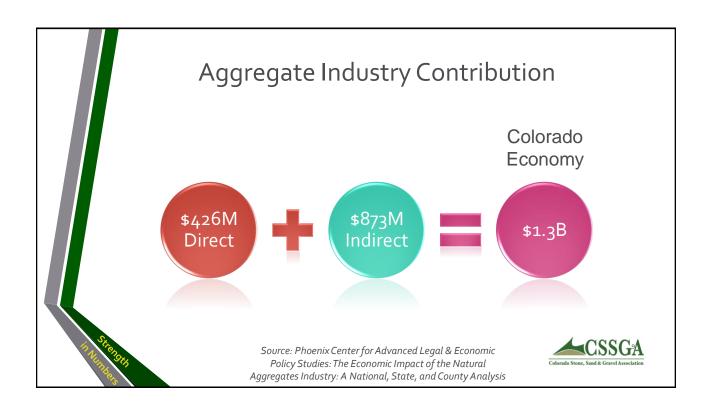
End chark



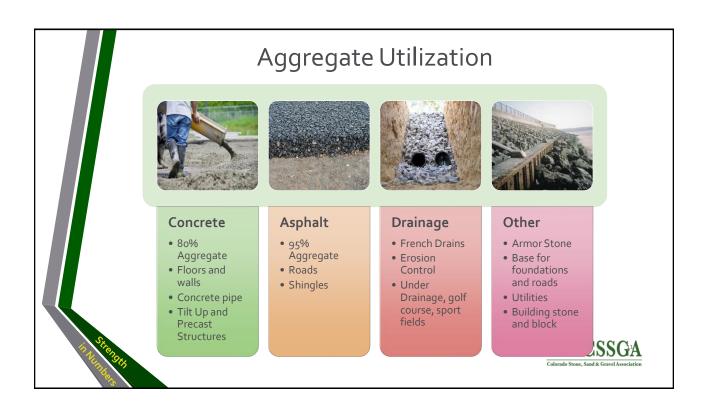
Economic Impact

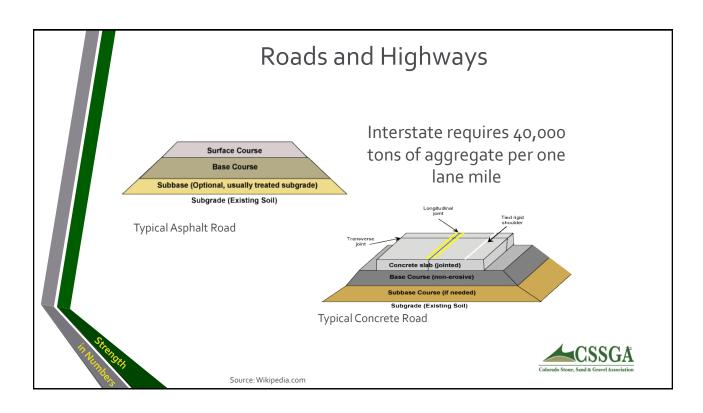
- Colorado aggregate production employment (Phoenix Center)
 - Direct Employment: 1,555
 - In-Direct Employment: 3,092
- Average earning per industry job were \$75,129 in 2016. Well above national average of \$61,586 (Phoenix Center)
- Direct tax revenue (Tax Revenue)
 - \$6385 on average per employee annually
 - Direct employment contributed \$9.9 million in 2016

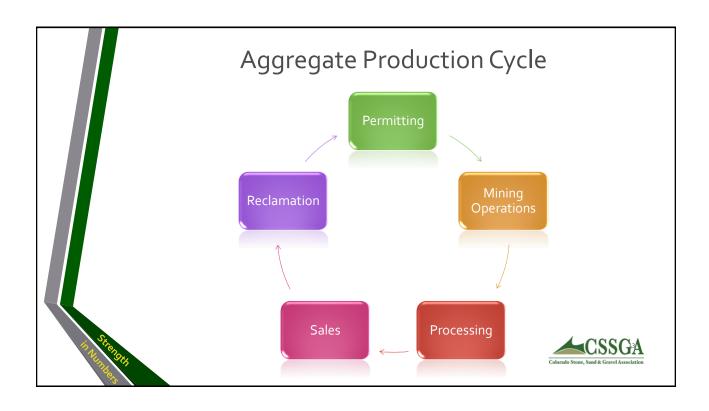








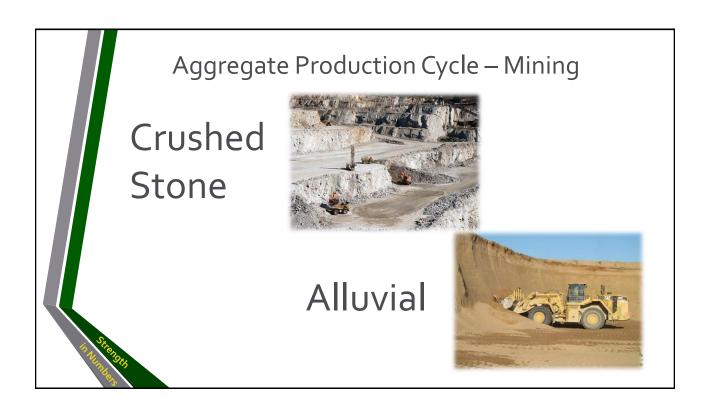




Aggregate Production Cycle - Permitting

- Aggregate Source Identified
- Evaluation of Financial Viability
- Permitting
 - Federal: Corps of Engineer Permits, BLM Contracts, Exploration Permit, Environmental Assessments, Wildlife Assessment, Archeological Assessment
 - State: DRMS, SWSP, Air Permits, Spill Prevention, Well Permit, Water
 Discharge Permit, State Highway Access, Sales License, Scale Certification
 - County: Zoning, Special Use Permit
 - Municipal: Zoning, Special Use Permit





Aggregate Production Cycle - Processing

- Dry Processing
 - Crushers
 - Screens
 - Conveyors
- Wet Processing
 - Screens
 - Log washers or coarse material washers to clean the material
 - Sand screws and or classifiers are used to produce sand
 - Recycle Water



Aggregate Production Cycle – Transportation

 Material delivered to end customer or market transported by truck, rail, barge, or ship.

 Freight Costs often exceed the material cost when sources are not close to the market.







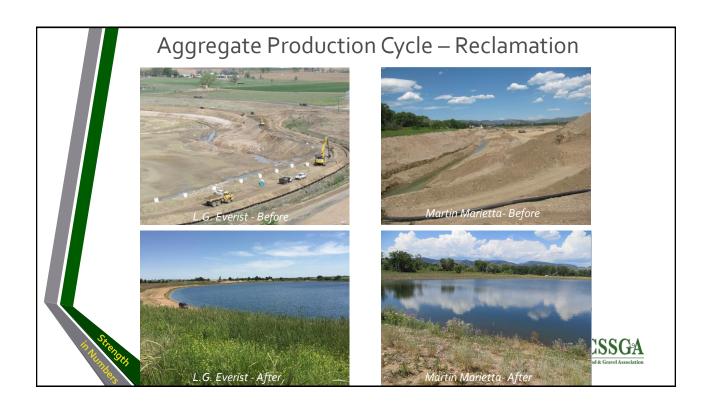
Aggregate Production Cycle – Reclamation

- Primary Objective: "Return the land to beneficial use"
- Colorado's Post Aggregate Mining Benefits
 - Water storage: 1.1million ac-ft. of water storage, more than the proposed Two Forks Dam project
 - Recreation
 - Wildlife habitat
 - Agriculture

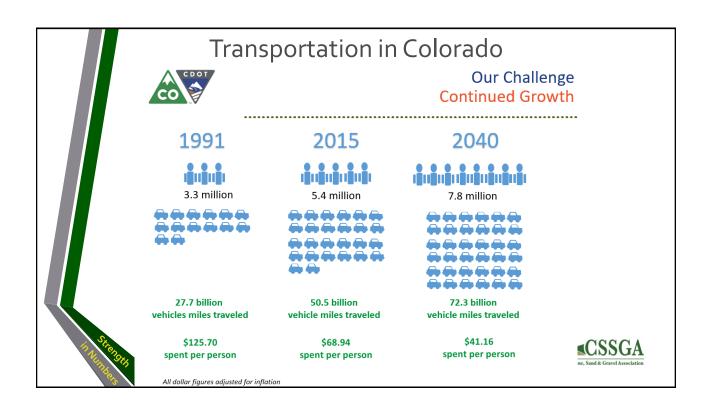
CSSGA

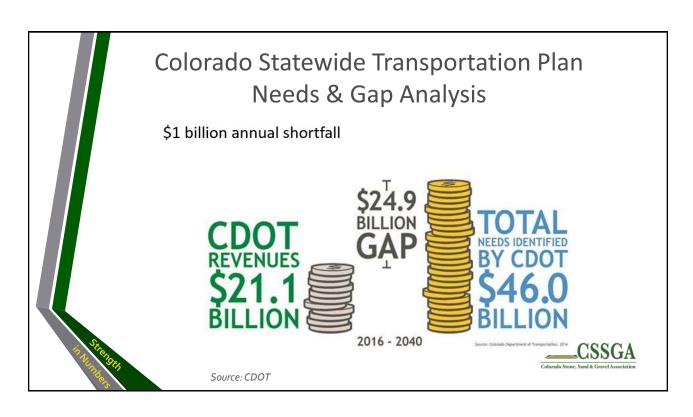
Colorado Stone, Sand & Gravel Association

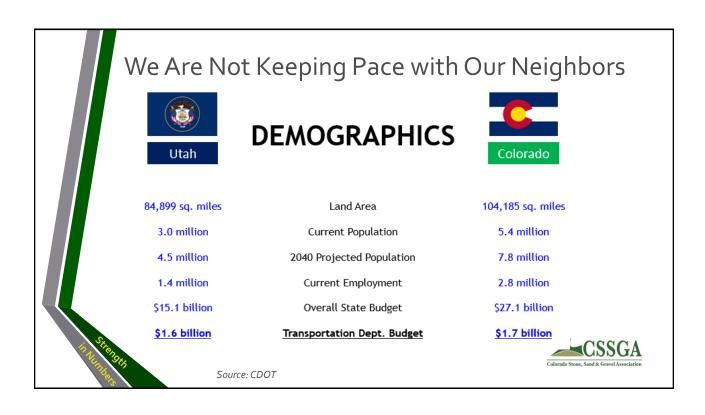


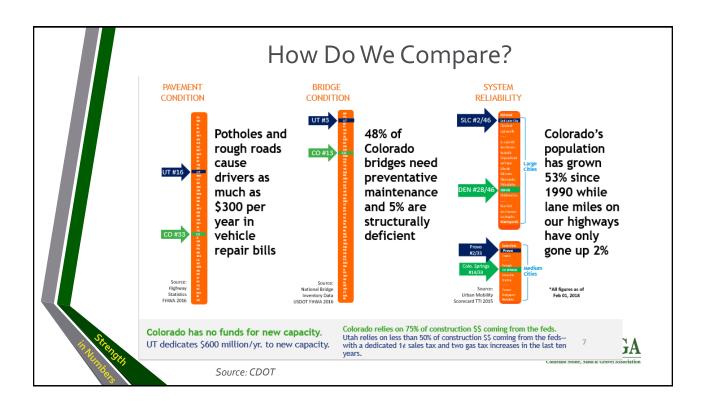












Trillion Dollar Infrastructure Plan



- Currently no concrete plan has been set forth
- Would require bi-partisan support in a deeply divided political climate
- Impact on Colorado infrastructure funding is unclear



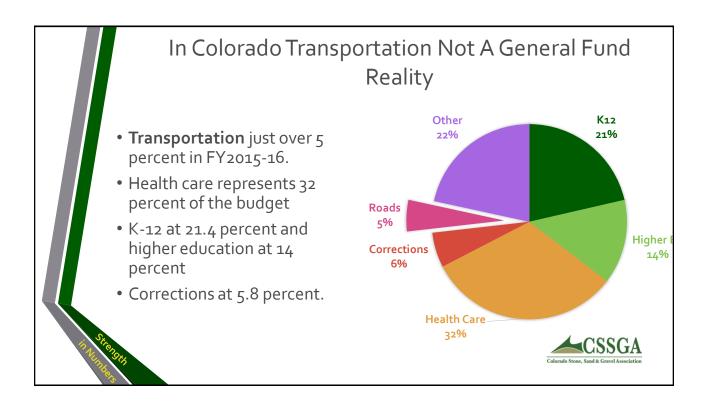
Gas Tax No Longer Sustainable Funding Source

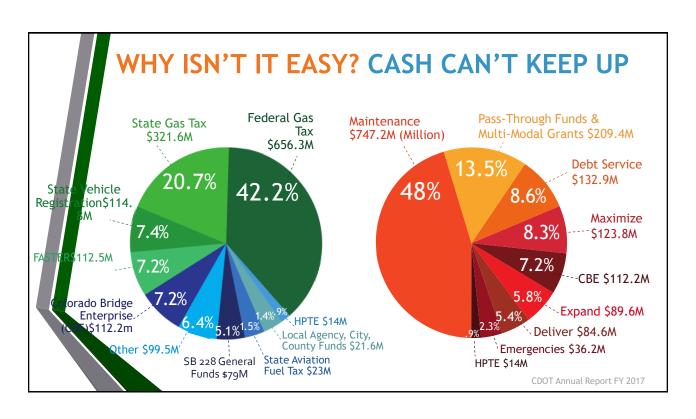
40.4 cents per gallon

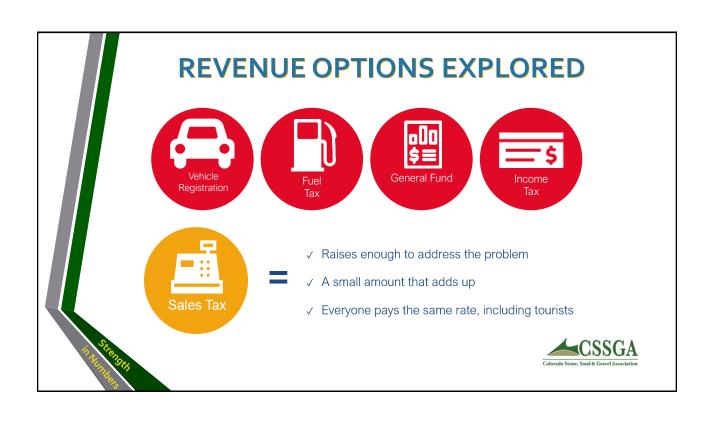
- > 18.4 cents feds
- 22 cents to state
 - This can not be changed by legislature in CO

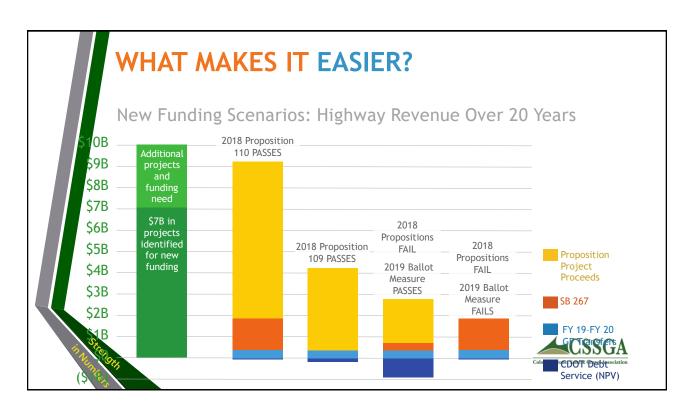
- Federal and state gas taxes have been fixed for more than two decades
- Revenue has steadily declined as Coloradans burn less gasoline in more fuelefficient cars
- CDOT is taking in 30 percent less money from gas taxes now than it did in 2000 (Source: Inside Energy)

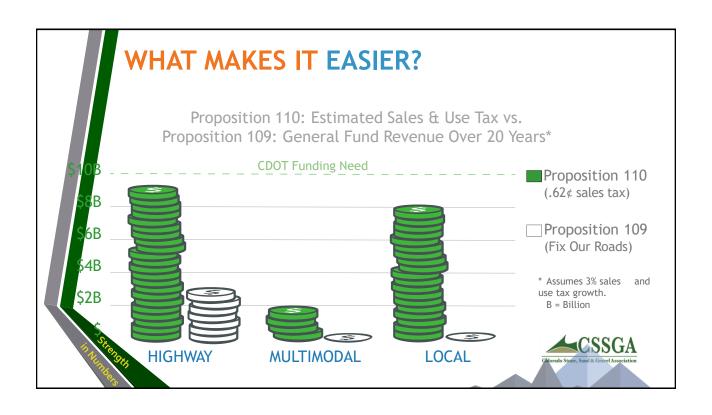


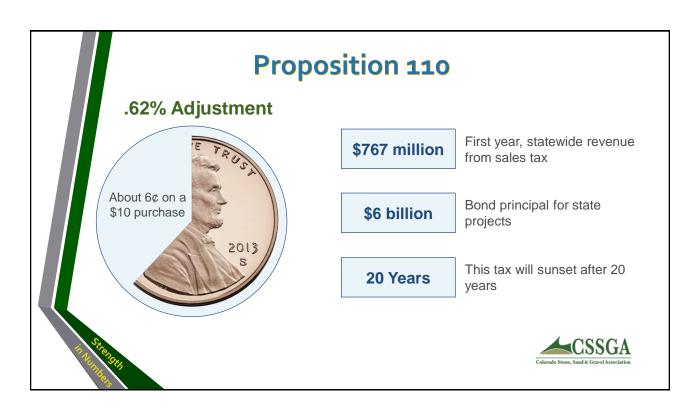


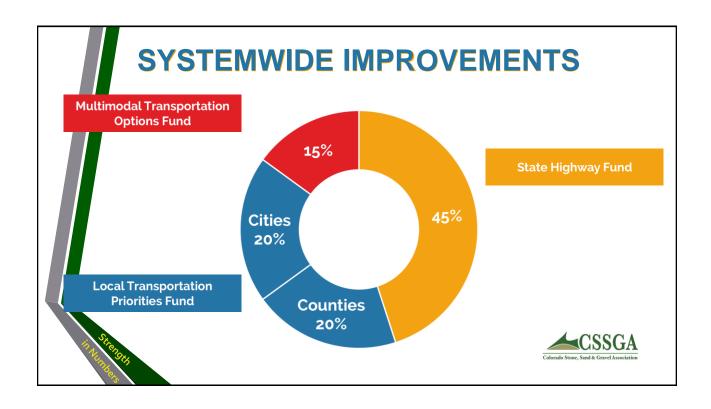














Improve Traffic Flow and Reduce Congestion by widening lanes, adding passing lanes, improving interchanges, and create alternative modes of transportation

Improve Safety by adding or widening shoulders, replacing bridges and building wildlife crossings



Fully Flexible Funds allocated to every city and county to support projects, such as:

- → Street or intersection improvements
- → Transit infrastructure or operating
- → Sidewalks, pedestrian bridges or bike lanes





Projects at the **State and Local Level**, including a match program for local communities.

Projects could include:

- → Bustang
- → Regional bike and pedestrian paths
- → Dial-a-rides
- → Disability services







STATE PROJECTS

Major State Projects

SH-119 Bus Rapid Transit (BRT)

Bus Rapid Transit between Boulder and Longmont along SH-119 **Total Cost**: \$160 million

I-70 West Vail Pass Improvements

Construction of a third lane in both directions to increase safety and mobility **Total Cost:** \$225 million

Floyd Hill to Twin Tunnels Widening

Widening to three lanes westbound on I-70 from Floyd Hill to the Twin Tunnels **Total Cost**: \$480 million

I-25 North Expansion through Weld County to Fort Collins

Addition of a Express Lane in each direction, interchange reconstruction, safety improvements, intelligent traffic systems. **Total Cost:** \$353 million (ballot cost)

I-25 Colorado Springs Congestion Relief

Widening of roadway to six lanes in four sections throughout Colorado Springs. **Total Cost:** \$354 million

ADDING IT ALL UP



Create a reliable revenue stream to support and complete state transportation projects



Prioritize rural and urban multimodal mobility



Allocate funding to local communities across the state and give them the authority to make transportation decisions







References

American Society of Civil Engineers. 2017 Infrastructure Report Card. http://www.infrastructurereportcard.org/

CDOT(a). Transportation Funding Problem. https://www.codot.gov/programs/environmental/wildlife/wildlife-transportation-summit/mike-

CDOT(b). The State of Transportation in Colorado.

om/static/f/542022/20344530/1348064410823/CDOT+Infographic+2012.pdf?token=a1vVZ3p5NxpwSrFFokFP%2FX6IUC4%3D

CDOT(c). Transportation Commission of Colorado Workshops & Regular Meeting. https://www.codot.gov/about/transportation-commission/documents/2015-archive-of-agendas-and-supporting-documents/august-ons/august-full-packet pdf

Inside Energy. Why Gas Taxes Won't Fix Our Infrastructure Problem. http://insideenergy.org/2015/03/04/why-gas-taxes-wont-fix-our-infrastructure-problem/

National Economic Council and the President's Council of Economic Advisers. An Economic Analysis of Transportation Infrastructure Investment. https://obamawhitehouse.archives.gov/sites/default/files/docs/an_economic_analysis_of_transportation_infrastructureinvestment.pdf

NSSGA. How will a 12 cent Increase in the Gas Tax Impact Drivers? http://www.nssga.org/smallchange/

NSSGA. Rocks Build America. http://www.nssga.org/rocks-build-america/

Phoenix Center for Advanced Legal & Economic Policy Studies. The Economic Impact of the Natural Aggregates Industry: A National, State, and County Analysis. http://www.phoenix-center.org/scorecards/AggregatesIndustry2017ScorecardFinal.pdf

Standards & Poor's Ratings Services. U.S. Infrastructure Investment: A Chance to Reap More Than We Sow. http://images.politico.com/global/2014/05/05/sp-

Tax Revenue. Based on the average yearly salary of an aggregate mining employee according to Phoenix Report (\$75,129) multiplied by Employee paid State Tax (3.2%), Employer paid Unemployment Tax (3.1%) and Employer paid Workers Comp (2.2%).

TRIP: A National Transportation Research Group. Colorado Transportation by the Numbers. http://www.tripnet.org/docs/CO_Transportation_by_the_Numbers_TRIP_Report_March_2017.pdf

 $U.S.\ Global\ Leadership\ Coalition.\ {\it Colorado\ Benefits\ of\ the\ International\ Affairs\ Budget.\ \underline{http://www.usglc.org/downloads/states/Colorado.pdf}}$

 ${\sf USGS.}\ Aggregates\ by\ State\ and\ End\ Use.\ {\tt https://minerals.usgs.gov/minerals/pubs/commodity/aggregates/pubs/c$

U.S. Geological Survey, Industry Estimates

Colorado Demographics Population Forecasts 2000-2050, Open File Report 00-258,

orld Economic Forum. 2014-2015 Global Competitiveness Report. http://www.weforum.org/docs/WEF GlobalCompetitivenessReport_2014-15.pd

