

ELON MUSK

Elon Musk Reveals His Next Idea as 'The Boring Company'

The serial entrepreneur has tunnel vision.

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Lydia Belanger
ENTREPRENEUR STAFF



Elon Musk has spent his career building companies with flashy goals such as self-driving cars, human travel to Mars, environmental preservation and friendly artificial intelligence. Now, he's ready to bore.

Tunnels, not people.

On Saturday, Musk took to Twitter to rant about traffic. But he didn't just passively aggressively subtweet bad drivers. In his typical fashion, he offered a solution to the problem.

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Elon Musk 
@elonmusk 

Traffic is driving me nuts. Am going to build a tunnel boring machine and just start digging...

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Elon Musk 
@elonmusk 

It shall be called "The Boring Company"

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Elon Musk 
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Boring, it's what we do

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Elon Musk  @elonmusk · Dec 17, 2016 

Traffic is driving me nuts. Am going to build a tunnel boring machine and just start digging...



The man just loves a good pun, it seems.



Musk has long been a proponent of new technologies for moving people. Earlier this decade, he began drumming up momentum for the Hyperloop concept -- a mode of mass transportation that would propel pods through above-ground pneumatic tubes. But as of this weekend, he's pondering subterranean solutions.

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The timing is right. Last week, Musk was among 18 tech executives who met with President-elect Donald Trump as part of a Strategic and Policy Forum. Musk's tunnel vision (pun intended) is in line with Trump's emphasis on infrastructure. The president-elect has proposed \$1 trillion of government infrastructure investment to boost the U.S. economy.

While Musk tweeted “I am actually going to do this,” whether he will in fact launch a new venture called “The Boring Company” is yet to be seen. However, he’s since revised his Twitter bio, which now reads, “Tesla, SpaceX, Tunnels (yes, tunnels) & OpenAI.”



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[~] [St_Bernardus](#) · 3517 points · 5 months ago
I don't really understand the economics of how and where he can dig holes.

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[~] [Sekurako01](#) · 6535 points · 5 months ago

I'm always wondering how the fuck does he gets all that money for all his big projects. I know there are many investors but fuck me he has so many projects in parallel that burn so much cash at this point.

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[~] [sick314](#) · 1026 points · 5 months ago

Musk also said via Twitter that the Boring Company has already started on its DC to NYC route

Wonder what musk meant by this???

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[-] silsana 1A88 points 5 months ago
For a second I thought Elon Musk was calling a specific company boring and that since they were so boring they'd offer free rides..

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[-] wugkra33 440 points 5 months ago

I think he named it that as a joke almost. Play on words.

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[-] gayness_in_uranus 209 points 5 months ago

Can't be, "Big Fucking Rocket", "Boring Company" and some barges named "Just Read the Instructions" and "Of Course I Still Love You"

He's definitely not joking around.

permalink embed save parent report reply

[-] thebrainyape 179 points 5 months ago

The tesla models certainly won't spell out S:3:X.Y.

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[-] Jakedinspace 52 points 5 months ago

Don't forget the Semi.

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[-] eartitukaebs 71 points 5 months ago

Or Tesla's "Ludicrous speed" Space Balls reference.

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[+] [deleted] 5 months ago (1 child)

[-] curvyhalls 6 points 5 months ago

Ludacris speed.

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[-] TehGogglesDoNothing 16 points 5 months ago

And the only reason the Model 3 wasn't a Model E was because Ford holds the trademark.

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[-] CommunityChestThRppr 6 points 5 months ago

Ford has a trademark on the letter E?

That ain't right

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[-] MaritMonkey 46 points 5 months ago

It amuses me that naming a rocket after the Millennium Falcon has been so overshadowed that it seems, by now, like an obviously appropriate choice.

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[-] gayness_in_uranus 15 points 5 months ago

Oh, thats where falcon comes from?

I just thought they picked falcon because... Well... It's cool.

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[-] Y_7n_Doubt_Utek_2E 35 points 5 months ago

I thought it was cause it was a falcon big rocket.

BFR- Big Falcon Rocket (big fucking rocket)

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[-] bryce0110 26 points 5 months ago

The BFR has barely anything to do with the falcon rocket at all, so Big Falcon Rocket is just it's official name while Big Fucking Rocket is 100% what he meant.

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[-] MaritMonkey 21 points 5 months ago

And the original mockup capsule was called "magic dragon" as in "puff the ..."

These are the things that still make me smile even when I'm having a really bad day. It's like "oh hey, just in case you forgot - you live in THE FUTURE and it is pretty damn cool" :)

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[-] Kirin0 9 points 5 months ago

3rd barge (being built) will be named *Shortfall of Gravitas*, so, yeah....

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[-] AlchemiaFWind 304 points 5 months ago

The company is really boring, and it's actually not boring at all!

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[-] ShantPonka 32 points 5 months ago

But it is actually boring

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[-] Kjaeeer 62 points 5 months ago

He's going to send rockets to mars with automated boring machines that will create underground living quarters before he sends the first mars settlers.

varying degrees of likelihood but that it is impossible in principle to say with certainty which one will occur.

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...and 18 more

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[+] MrPotatoWedges 175 points 5 months ago

I swore this was an Onion article about Elon's new boring company and its gonna start doing its boring thing "in the coming years"

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[+] Frigidevil 13 points 5 months ago

I just love that this is an actual sentence from a real article, and not a Simpsons quote

Progress on test tunnel continued through 2017, raising money with Boring Company hats and **Boring Company-branded flamethrowers.**

I can't figure out if Musk is a real life Hank Scorpio, or Cave Johnson.

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[+] groogwrx 233 points 5 months ago

Sweet! I always wanted to go to mars!

...What?

A tunnel?!

Never mind.

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[+] Quality_Bullshit 101 points 5 months ago

What if the tunnel is on Mars

permalink embed save parent report reply

[+] maxmillianycen 125 points 5 months ago

What if the tunnel go to Mars.

permalink embed save parent report reply

[+] Quality_Bullshit 43 points 5 months ago

A tunnel through space

permalink embed save parent report reply

[+] durtoldasath 91 points 5 months ago

Boring Wormhole Company.

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[+] TehDogglesOuttrotling 4 points 5 months ago

The spice must flow.

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[+] solaceinsleep 1152 points 5 months ago

Ever notice how Elon's companies are all about colonizing Mars?

- SolarCity to provide electricity
- Boring company to dig tunnels
- SpaceX to get us there
- Tesla for electric vehicles to drive around when we get there (one's already on the way :))

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[+] WilliamJeremiah 134 points 5 months ago

Also Kimball Musk, Elon's brother is doing farming with water and no soil in shipping containers. It doesn't really address growing plants in space though.

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[+] ZorglubDK 41 points 5 months ago

It kinda does though. From my understanding ice, and thus water, is relatively plentiful on Mars at the poles, not having to bring literally tons of dirt to make settlements self sustaining is a huge benefit.

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[+] WilliamJeremiah 5 points 5 months ago

Maybe, I am not knowledgeable enough on this subject. I was just thinking that Mars only having 38% of the gravity of Earth or one of the other factors might impact how plants grow there. I'm not sure if they do though.

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[+] ThatOneGuyFromAZ 559 points 5 months ago

Don't forget about his global satellite mesh network. That sure would come in handy down on mars to keep all of the early settlers interconnected on those long exploratory trips.

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[+] squirrel4prez 159 points 5 months ago

what if he could make a line of satellites that would connect mars to earth with a good network connection

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[+] PvaakAzar 854 points 5 months ago

Speed of light is a bitch though.

permalink embed save parent report reply

[+] squirrel4prez 143 points 5 months ago

12.5 (4 to 24min average) lightmins.. well we cant skype.. but other than that

permalink embed save parent report reply

[+] frepeguy 448 points 5 months ago

Streaming's fine, but the ping times... So much for Age of Empires

permalink embed save parent report reply

[+] DRLeimiscate 92 points 5 months ago

Calling it now. Strategic turn based videogames making a comeback.

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[+] Apatomooze 32 points 5 months ago

Reverse speed chess where you can't take less than 12 minutes per turn.

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[+] TehDogglesOuttrotling 3 points 5 months ago

Anyone up for a game of Civ?

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'Human brain' supercomputer with 1 million processors switched on for first time

[–] WhiteArchie 100 points 5 months ago
 Time for a mars server
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 [–] [deleted] 5 months ago (1 child)
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 [–] lol-eve-ne-ke 29 points 3 months ago
 It's a small delay all things considered.
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 [–] MythosRealm 40 points 5 months ago
 It's a standard Skype delay..
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 [–] DensiPixel 56 points 5 months ago
 You think you're ping is bad now, just wait 'til it's 3 minutes on Mars.
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 [–] Locke_Step 47 points 5 months ago
 S'ok, I'm a Torb one-trick.
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 [–] MythosRealm 11 points 5 months ago
 Why are you playing a projectile on hugh ping? Get your laggy ass on Mercy so you don't have to aim!
 permalink embed save parent report reply
 load more comments (3 replies)
 [–] Zantirouz 8 points 5 months ago
 Lead the target.
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 [–] grass-astick-sack 26 points 3 months ago
 Not sure if it's what you meant, but you can't "string a line" of satellites between planets, since those satellites have to be in orbit around something (the sun).
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 load more comments (1 reply)
 [–] willis_dylan 7 points 5 months ago
 What do you mean by "line"?
 permalink embed save parent report reply
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 [–] imnotquiteadeadyet 94 points 5 months ago
 It took me to this comment to realize why it's called the Boring company. I'm a fucking idiot
 permalink embed save parent report reply
 [–] Gackaa 30 points 5 months ago
 Oh,
 Me too then,
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 [–] Chusien 4 points 5 months ago
 I don't know I find it kind of exciting.
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 [–] ErectorBeam 76 points 3 months ago
 Earth is the beta test
 permalink embed save parent report reply
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 [–] andyfulite44 17 points 5 months ago
 What's next for him then, lab grown meat?
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 [–] Rnfrer 43 points 5 months ago
 And the flame throwers is for the marsians.
 permalink embed save parent report reply
 [–] kernelseanders 40 points 3 months ago
 marsians
 Asian martians?
 permalink embed save parent report reply
 [–] Rnfrer 12 points 5 months ago
 Right, thats how you spell it.
 permalink embed save parent report reply
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 [–] curryba86 6 points 5 months ago
 Wrong by a long marsian.
 permalink embed save parent report reply
 load more comments (1 reply)
 [–] AutomatedChaos 9 points 5 months ago
 Don't forget he kickstarted Hyperloop technology for fast transportation in low pressure environments
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 [–] a-w-e-b 8 points 5 months ago
 Don't forget the most important company : candy company by elon musk.
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 [–] Labidafi 26 points 5 months ago
 Well if we're going to establish a society in Mars then we're going to need the very same structures and technologies we need here on earth, don't we?
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 [–] WenchesAndMeat 36 points 5 months ago
 It would much more practical and safer to live underground than in giant Total Recall-esk domes
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 [–] ErananietheKraime 30 points 5 months ago

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Don't mean to shoot you down but the suffix ought to be "-esque" my man

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[+] WenchesAndMead 20 points 5 months ago

Thanks my dude I'll remember that in the future

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[+] KuyTheBoy_ 18 points 5 months ago

It's -usk when talking about anything Elon gents.

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[+] cadargan 6 points 5 months ago

All of these projects are awesome

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[+] m3lthoff 6 points 5 months ago

And flamethrowers for the aliens!

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[+] falconberger 7 points 5 months ago

I'd prefer we kept them for ourselves.

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[+] NickAnobile 17 points 5 months ago

The holes are for us to live in when there's no more atmosphere here.

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[+] [deleted] 5 months ago (22 children)

[+] wholavivash 156 points 5 months ago

That's a good thing. If he opens it directly on paid basis then most of the people will hesitate to try it as this tech being new they will have a little fear in them and feel hesitated to spend money on it.

Giving free rides in the beginning will make people approach it more easily and getting used to it.. Nice strategy and I hope it goes good.

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[+] NathanaelGomez1788 79 points 5 months ago

Nice way to test if the hole underground holds up.

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[+] dm_fuckins_1 52 points 5 months ago

people have digging holes a long time now. I think Elon can handle it.

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[+] mat276 147 points 5 months ago

Unfair media always tryina do people dirty. I think elon musk's company is actually very interesting.

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[+] Communist_iguana 141 points 5 months ago

Can you elaborate?

Edit: nvm I'm an idiot

permalink embed save parent report reply

[+] TheAlligatorGar 93 points 5 months ago

I think he's making a joke because it's called the "boring" company and he's trying to say that the media is calling his company boring

permalink embed save parent report reply

[+] Communist_iguana 38 points 5 months ago

I can't believe I didn't get that. BRB gotta commit seppuku

permalink embed save parent report reply

[+] TheAlligatorGar 11 points 5 months ago

It's okay at first I didn't get it either. I thought for a minute that they were shitting on his company in the article or something.

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[+] Communist_iguana 19 points 5 months ago

Nice of you to bail me out but I've already lost like 3 quarts of blood

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[+] srayknezzzz 7 points 5 months ago

Don't worry we all miss an obvious joke sometimes.

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[+] YourWebcam 80 points 5 months ago

Just looking at the concept and imagining being in a tiny tunnel gives me anxiety

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[+] Communist_iguana 128 points 5 months ago

Have you never been in the Tube or a Subway?

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[+] narevivi66h 31 points 5 months ago

This was a real thing that happened to a bunch of commuters just like me, and it started happening with some regularity on the subway system I used to take to work every day. The idea of being stuck on a crowded train in a tunnel with no information as the air slowly fills with smoke really freaks me out.

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[+] darangedkdr 33 points 5 months ago

That's a regulation issue, not a technology issue. There are so many ways that problem could be solved. Oxygen Masks, Emergency Oxygen Pipe running the length of the tunnel. Emergency stopping bays, emergency engines that are built into the individual pods so it can go to the nearest stopping bay.

Idk what's up with your subway regulation guys but this should not be a problem. It's like if planes didn't come with Oxygen Masks.

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[+] divetofdeath 5 points 5 months ago

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Those cars are airtight with onboard oxygen etc - because the tunnels themselves are under a vacuum. And in vacuum fast spreading fire is also unlikely - no oxygen.

The real problem here is when the engine fails - you are stuck deep under ground in a small car shaped tunnel under a vacuum. Your exit doors are blocked by the tunnel. You have to wait for some emergency cart to drag you out - assuming you are not jammed or stuck in there.

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[–] John_Dew_007 44 points 5 months ago

Different thing altogether. I've been down a mine shaft 400 metres (1300+ feet) underground. That's the height of the Empire State building. Underground. A subway has stations and multiple exit points and you're out on street level in no time. But knowing there's 400m of earth above you and the only way out is an open caged elevator is claustrophobic as fuck.

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[–] TriggerHappy420 22 points 5 months ago

How about the Mponeng Gold Mine? 2.5 miles deep. Think its something like a 2 hour commute from the surface to the bottom.

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[–] John_Dew_007 10 points 5 months ago

Jesus Christ, Yeah I'll stay topside, thanks.

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[–] WishIWasInOnPotemus 6 points 5 months ago

I'm down if they pay me for those 2 hours lol

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[–] rthessmilla 37 points 5 months ago

Well I usually just order a sandwich and go I've never stayed long

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[–] Crookshanks 8 points 5 months ago

2 miles in 7 sec tho...

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[–] Froggale 10 points 5 months ago

Hopefully the rides aren't as boring as the company.

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[–] aManOfTheNorth 22 points 5 months ago

It's like the 1890 World's Fair and Musk is Ferris.

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[–] DrBix 14 points 5 months ago

That's not Elon Musk, that's his third or fourth clone. He perfected the "Cloning Company" many years ago, which allows him to run multiple cutting-edge companies simultaneously with nobody noticing that it's actually different clones. The real Elon Musk is already on Mars waiting for his clones to join him.

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Co-founder of Fabrica.city — digital real estate transactions on the Blockchain. San Francisco. Italian heart.

May 4, 2017 · 5 min read

Elon Musk's Boring Company is boring... For now.

Elon Musk. What can you say about him? The Nikola Tesla of the 21st Century. Maybe he will succeed, maybe he will fail, but he already left a mark and he'll never be forgotten.

One of his latest crazy (in a good way) initiatives is the Boring Company, focused on excavating tunnels under cities to reduce street traffic. The name is a nice pun on the fact that "boring" means "excavating", and it has been so far a very "boring" (uninteresting) topic.

Elon's idea is to revolutionize the technology being used to excavate, to justify boring tunnels under a city like LA, and then offer automated transportation from point A to B for cars.

Here's a short video released just a few days ago:



Many people have already heavily criticized this initiative, based on mostly superficial or wrong assumptions.

What I'd like to do is to take a closer look and try to discern whether there's a real opportunity here, or not, and if the Boring Company has a chance to succeed.

State of tunneling today

Government-funded, large infrastructure projects are typically the ones where the digging of a large tunnel is involved.

There is little economic incentive to increase the efficiency of the **TBMs** (Tunnel Boring Machines), because that's only a small fraction of the total cost.

There are several types of TBMs (Tunnel Boring Machines), also called *moles*, such as **Earth-pressure balance** (cutting wheel pressed against the tunnel face by hydrolic cylinders), **mixed shield TBMs**, and so on. The "**new Austrian method**" (it's 50 years old; when are they going to drop the "new" in the name?) might be the most recent relevant innovation that happened in the tunneling industry.

Tunnels are primarily dug for cars powered by a combustion engine, which requires the tunnels to be large enough to support multiple lanes of traffic AND the expulsion of exhaust gases. Tunneling machines are therefore huge—they require big efforts to be transported on site and assembled, and then another big effort to start operating them.

As you can guess, and as Musk points out, being able to reduce the diameter of the tunnel is one of the most relevant ways to reduce its total cost.

Furthermore, most manufacturers of TBMs have little incentive to invent better ways to dig, or to "risk" recent innovations and apply them to TBMs.

For example, the latest innovation in saws is the **water jet cutter**: it uses water, sent at very high pressure (up to 100,000 psi) and mixed with an abrasive substance, against the material that needs to be cut. The water jet exits at supersonic speeds (up to 4,000 km/h), and is capable of cutting any material with high precision and minimum waste.

Nobody has successfully or extensively applied water jet technology to excavation of tunnels, because at these companies the "innovation

cycle” lasts for 15–20 years—in other words, any new idea, assuming it gets funded, takes 15–20 years to make it into a commercially available solution.

You are starting to see “some” use of water jet cutting in tunneling today, and only for minor “retouches”, not for the main digging.

As you might agree, the sector is really **boring**, and ripe for disruption—or at least, ripe for a faster way to introduce new technology that can improve efficiency, increase speed, etc.

Can Elon Musk bring this disruption to tunneling?

The opportunity

Let's assume, for a moment, that the Boring Company can drastically reduce the cost of tunneling—by 10x.

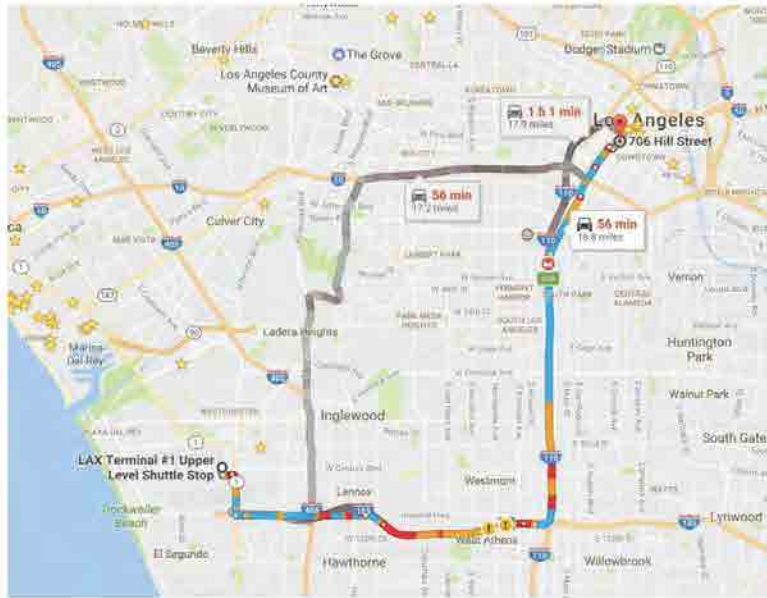
Current cost in optimal conditions (medium, stable rock; no big water infiltration; etc), with the best machinery available, runs at about \$20,000 per foot excavated. Average costs in good conditions, with good machineries, are more in the area of \$30,000 per foot. Let's say that the Boring Company gets to \$3,000 per foot. His claim of “\$10M for a mile-long tunnel” (which equates to less than \$2,000 per foot) might be really too aggressive.

But even more aggressive is to increase the speed of digging from an average of 300 feet/week to 5,000/week (one mile), or 15x.

But still, let's assume that he manages to do that. He's Elon Musk, after all.

Can this then become a real business? And can it stand competition from Herrenknecht AG and other TBM manufacturers? Or is competition going to come from another angle?

Let's say you start offering an LAX to Beverly Hills, which is 12 miles of driving, and usually 50 minutes of traffic; or LAX to downtown LA, which is 17 miles and usually an hour of traffic.



Los Angeles airport (LAX) to downtown LA—17 miles, and usually an hour sitting in traffic.

You would need to build several “elevators” to load the car into the tunnel; then power the tunnel with those nice-looking automated “pods”, and make the car emerge at the other end through another elevator.

This “car elevator” needs to be excavated, you need to build an actual elevator in the shaft, and you need to pay permits to the city. Let’s assume that you can build one for a million dollars. Let’s also assume that each elevator can carry one car every minute.

Ok, get ready for some back-of-the-napkin calculations.

30 “car elevators” in LAX: \$30M

30 “car elevators” in downtown LA: \$30M

17 miles of tunneling: \$170M

Additional costs (electrified, automated pods; miscellaneous stuff):
\$20M

Total is \$250M. You can transport 30 cars per minute from LAX to downtown LA. Assuming there’s demand for that volume for 20 hours a day, it means you can transport a total of 36,000 cars/day on that single trip alone, or 13 million cars a year. With a “ticket” of just \$10, and assuming that \$2 dollars out of each trip are going for operational

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Elon Musk's Boring Company sold \$600,000 worth of hats

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Elon Musk's Boring Company sold \$600,000 worth of hats

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IMAGE: BORING COMPANY

BY [STAN SCHROEDER](#)
DEC 10, 2017

Elon Musk is quite the hatter.



Besides running a car company, a space company, a tunnel company and an AI company, he also managed to sell roughly \$600,000 worth of hats, and the demand just keeps on rising.

SEE ALSO: [Elon Musk totally didn't invent Bitcoin, you guys](#)



Musk's Boring Company sold 30,000 hats adorned with the company logo since they launched in [October](#). Musk tweeted Monday. Just a few weeks ago, Musk said the company has sold \$300,000 worth of hats, meaning the sales have roughly doubled since that time.



If you order the \$20 [hat](#) right now, you'll likely get it in 3-4 weeks. But you might want to hurry, as Musk [says](#) the hats will be limited to 50,000 pieces only.

As people scramble to buy these boring hats, Musk is certainly [having himself a good time](#). Besides making an outrageous amount of boring puns, he also changed his Twitter bio to "Hat Salesman," as you can see in the [screenshot below](#).





Check that bio.

Musk (jokingly) says the Boring Company will start selling a branded flamethrower next. The way hat sales are going, it would probably sell like crazy, too.

WATCH: This mini elliptical is a spin class under your desk

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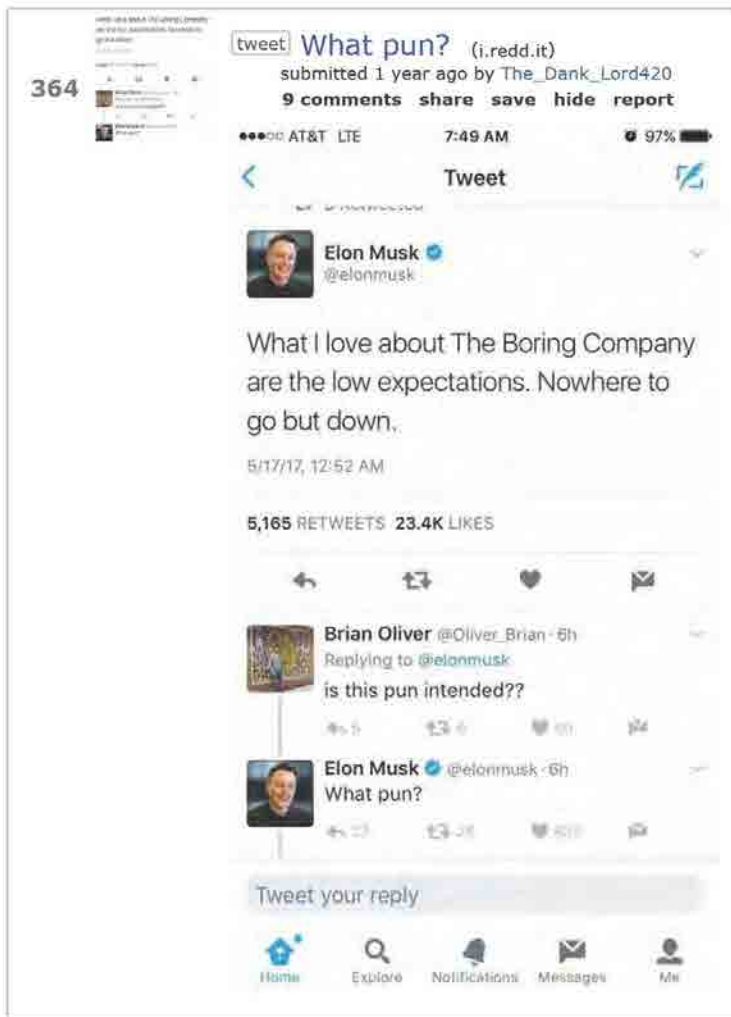
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First time in ages I have just sat here laughing for a couple minutes.

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We ask that items that are not newsworthy (like memes, home-made Youtube videos or non-credible news and articles, etc) be kept to a minimum.

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Posted by u/jannikn 11 months ago

Unanswered What's "The Boring Company" and what's up with the Hat Sales?

I saw Elon Musk's [Tweet](#) about getting 300k in the world's most boring hat sales for "The Boring Company, what is this? Is it a company to raise money for SpaceX or what?

Thanks!

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↑ SomniumOv 20 points · 11 months ago

↓ The boring company is a boring company. It bores.

Stuck in Traffic Elon Musk had the idea for tunnels beneath cities, where electric sleds would transport cars quickly, bypassing traffic.

Unlike you and me, who may fantasize on such ideas in traffic or the shower, when Elon has an idea like that, he invests time and money in it.

Enters The Boring Company. He bought a multimillion dollar Tunnel Boring machine, called it Godot, and set a few engineers on it to improve it, digging a test hole in the SpaceX parking

lot.

There's more things, like an announced second machine with another nice name, and merch sales for the lols. You can learn more at </r/boringcompany>.

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↑ StillAfloat 0 points · 11 months ago

↓ Stuck in Traffic Elon Musk had the idea for tunnels beneath cities, where electric sleds would transport cars quickly, bypassing traffic.

How is this any different from a subway but with cars?

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↑ SomniumOv 6 points · 11 months ago

↓ Well "a subway but with cars" is something that doesn't exist currently so yeah that's what it is, and that seems useful.

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↑ Cyrius 11 points · 11 months ago

↓ Elon Musk started a company to try to reduce the cost of underground tunnel construction. A process that involves making holes (boring).

Instead of giving the company a name that is in any way impressive, he decided it would be funny to call it The Boring Company. The joke being the double meaning of the word 'boring'.

They sell hats that say 'The Boring Company' on them. They're somewhat more popular than one would expect from such a boring piece of apparel.

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DECLARATION OF STEVE DAVIS

1. I am President of Applicant The Boring Company ("Applicant"). I have been employed by Applicant for two years. In my business role, I have personal knowledge of the facts contained in this declaration in support of Applicant's Office Action responses for the above-captioned mark ("Applicant's Mark"), which are submitted herewith.

2. Applicant's Mark was selected because it conveys multiple meanings to the public: (1) certain of Applicant's services relate to the digging of tunnels (*i.e.*, "boring"); and (2) the

mundane or dull nature of such services. In my experience, companies typically do not want to refer to themselves as boring or dull, but the humorous incongruity of Applicant's Mark has captured the attention and imagination of the public. In my experiences discussing Applicant with individuals throughout the United States, the consuming public readily comprehends Applicant's Mark as a double entendre.

3. Applicant's transportation services in Class 39 are provided via underground tunnels, but do not involve or otherwise relate to digging tunnels or boring.

4. Likewise, most of Applicant's services in Class 42, specifically, "[r]esearch, development... and design services in the field of high speed transportation of passengers and goods in tubes; Testing for new product development of high speed transportation systems of others to assure the viability of system designs; Product quality testing of high speed transportation systems of others to assure the viability of system designs; Consulting and advisory services in the field of [] transportation technology," do not involve or otherwise relate to digging tunnels or boring.

I declare under penalty of perjury that the foregoing is true and correct.

Executed this 14th day of November, in Hawthorne, California.


Steve Davis