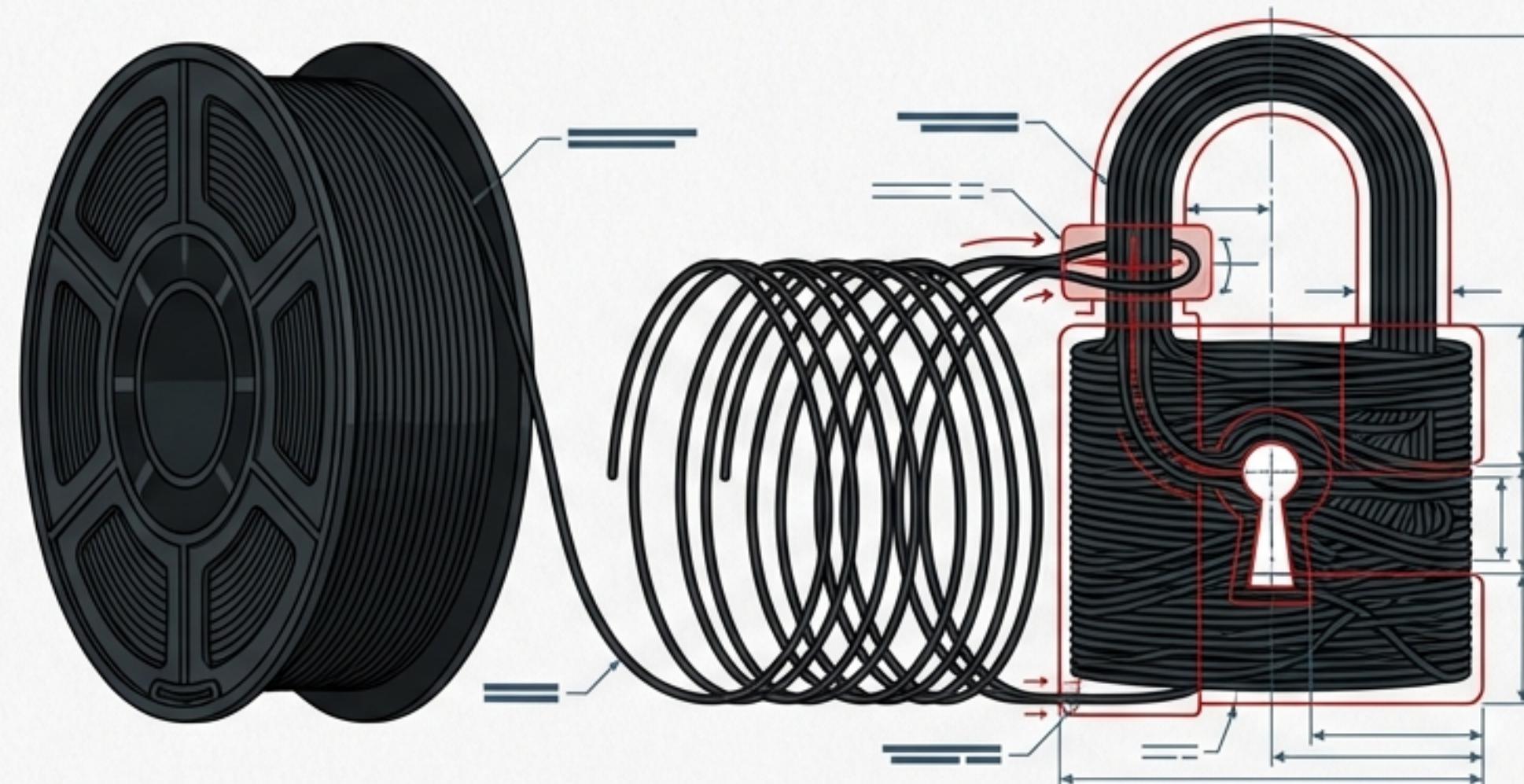


THE DIGITAL LOCKDOWN

INSIDE WASHINGTON HB 2321



Why the “Ghost Gun” Ban is actually the
end of Open Source Making.

EFFECTIVE DATE: JULY 1, 2027 // STATUS: PROPOSED LEGISLATION

NEW SECTION. Sec. 3. (1)
...no person who manufactures,
wholesales, or sells any
three-dimensional printer
may sell... unless...
**the three-dimensional printer
is equipped with blocking
features ...**

NEW SECTION. Sec. 4. (2)
...violation... shall be
guilty of a **class C felony,**
punishable by up to five
years in prison and a fine of
up to \$15,000 ...

THE MANDATE: HARDWARE CENSORSHIP



- **MANDATORY BLOCKING:** All printers must have integrated "Firearms Blueprint Detection Algorithms."



- **THE PENALTY:** Selling non-compliant hardware is a Class C Felony.



- **THE GATEKEEPER:** The State Attorney General controls the database of banned shapes.



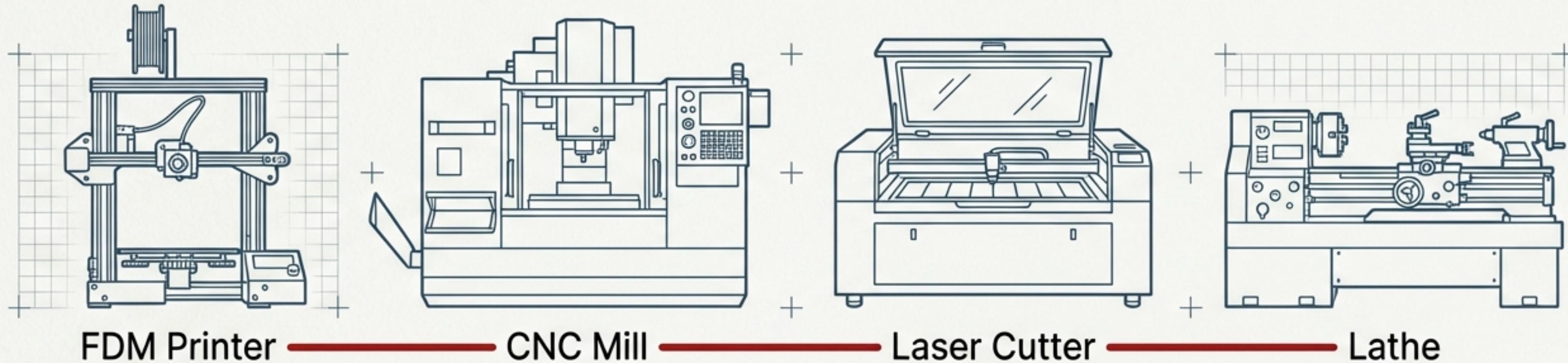
- **EFFECTIVE:** July 1, 2027.



““The nine scariest words you'll ever hear: I'm from the government, and I'm here to help.” **”**

THE SCOPE: IT IS NOT JUST PLASTIC

The bill redefines '3D Printer' to cover professional manufacturing.

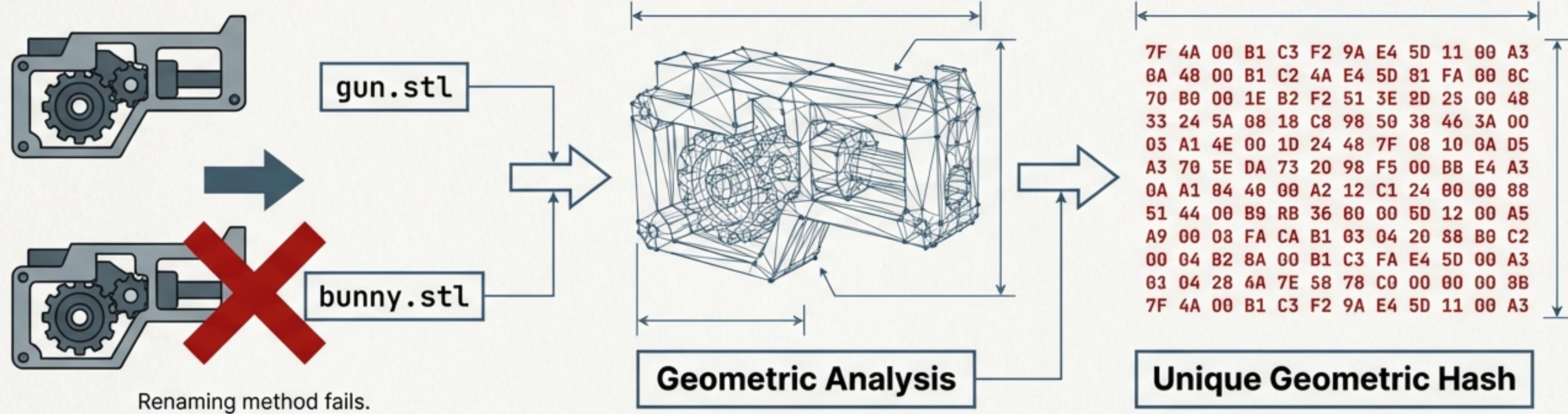


HB 2321 SEC 1, PARA 7: "Three-dimensional printer" means... (b) any machine capable of making three-dimensional modifications to an object from a digital design file using **SUBTRACTIVE MANUFACTURING**.

IMPLICATION: This regulation targets every machine shop, makerspace, and school lab. The only exemption is for holders of a Federal Firearms License (FFL).

THE TECHNOLOGY: GEOMETRIC DNA

Why renaming your files won't save you.



The Myth

Myth: "I'll just change the file name."

Reality: The law mandates a "**Firearms Blueprint Detection Algorithm**".

The Tech

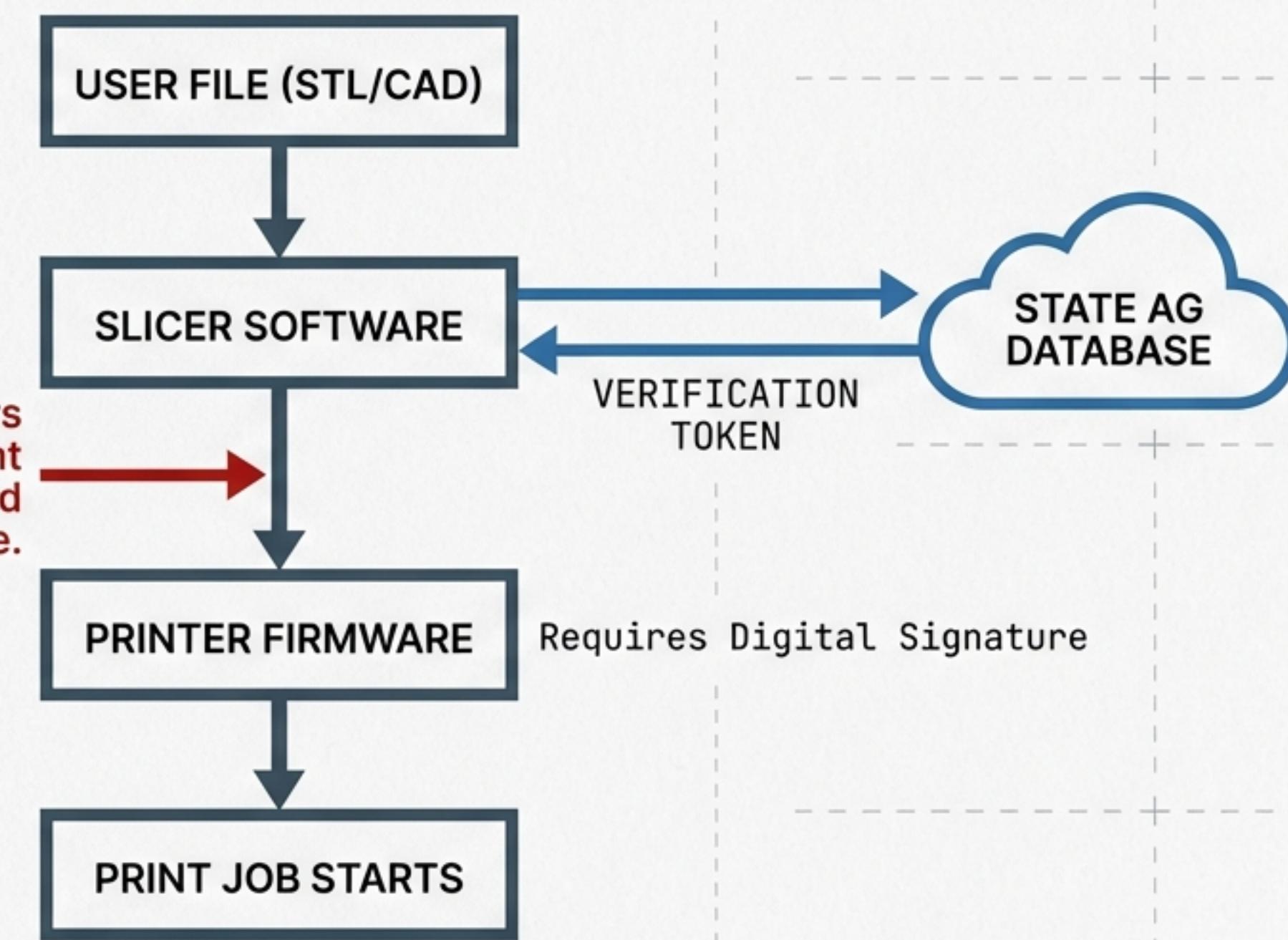
Technology: Companies like **Fizna** already exist.

Method: Scans the **SHAPE**, ignores the metadata.

Training Data: Trained on millions of user uploads from sites like Thingiverse.

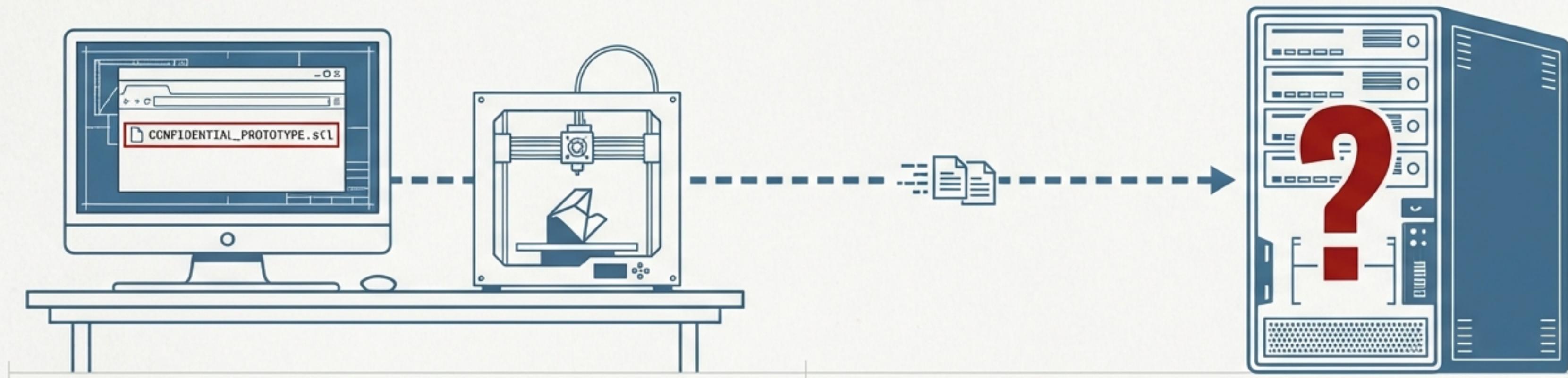
THE INFRASTRUCTURE: THE MANDATORY HANDSHAKE

BLOCKING POINT: Open Source slicers (Cura, Orca) without the government module cannot generate the required signature. The printer will not move.



The Consequence: Your hardware is bricked without software permission.
No internet = No print.

SURVEILLANCE IN THE WORKSHOP

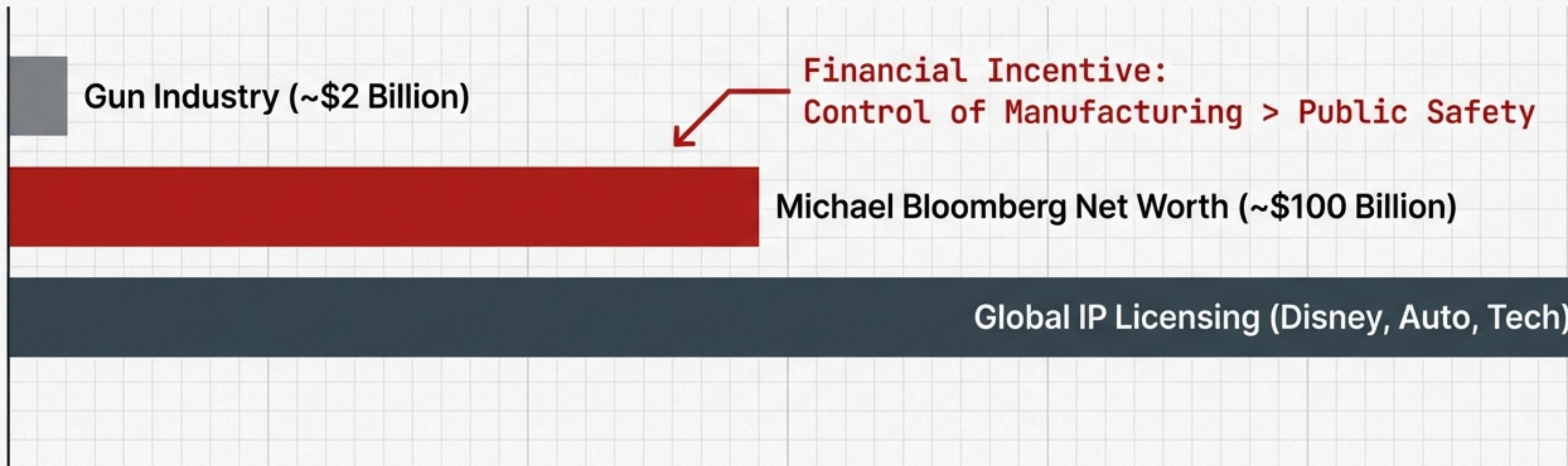


The Privacy Risk

1. **MANDATORY UPLOAD:** To verify legality, geometric data must be sent to a central server.
2. **DATA OWNERSHIP:** Who owns the server? A foreign manufacturer? The State Attorney General? A third-party contractor?
3. **IP THEFT:** Proprietary designs, unreleased products, and patent-pending inventions are scraped and stored.

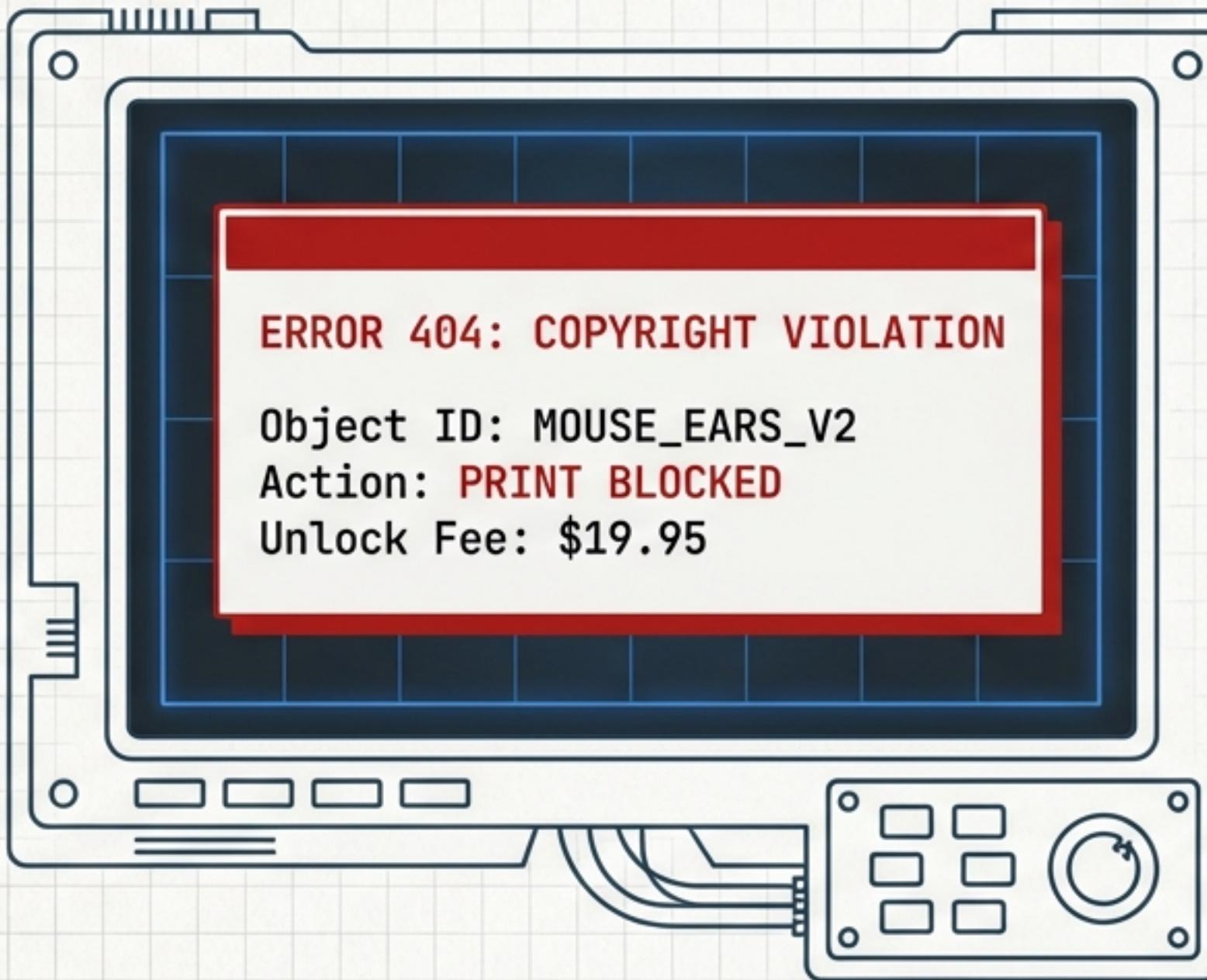
"Are you comfortable sending your proprietary designs to an unknown database just to prove you aren't printing a trigger guard?"

THE TROJAN HORSE: IT WAS NEVER ABOUT GUNS



The gun industry is “chump change” compared to the value of Intellectual Property (IP). Guns are merely the emotional entry point to establish the “Blacklist” infrastructure. Once the architecture to block shapes exists, it can be sold to the highest bidder.

THE ENDGAME: DRM FOR THE PHYSICAL WORLD



The Slippery Slope:

- **TODAY:** Block Gun Parts.
- **TOMORROW:** Block Disney IP, Ford Auto Parts, Warhammer Figures.
- **THE MODEL:** Your printer becomes a vending machine. Corporations will lobby to add their shapes to the Attorney General's blacklist.
- M-I-C... See you real soon. Why? **Because we want to license our merch to you.**

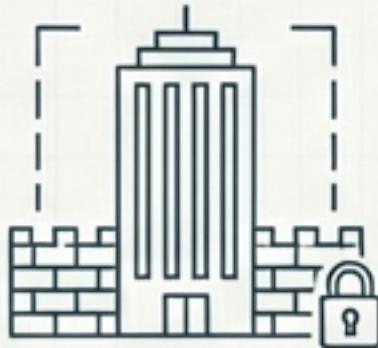
THE “GRANDFATHER” MYTH

Why your old printer won't save you.



- **1. Cleanup Bills:** States often pass follow-up laws making possession of non-compliant hardware illegal after a grace period.
- **2. Spirit of the Law:** Manufacturers may be forced to push **firmware updates** to existing connected machines to **avoid liability**.
- **3. Precedent: Flash Forge** previously attempted to police users via **cloud updates**. Companies will patch old machines to preserve their market access.

INDUSTRY FALLOUT: CAPITULATION OR BANKRUPTCY

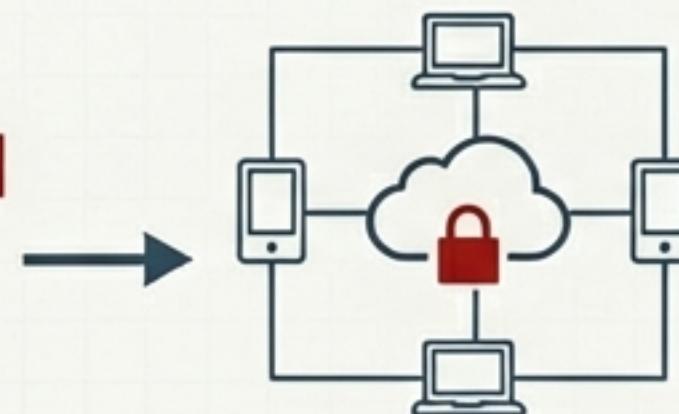


THE GIANTS (Bambu, Creality)

Strategy: **Capitulation.**

Reason: Cheaper to install global spyware than lose the US market.

Result: **Closed ecosystem, walled gardens, mandatory cloud.**



THE INNOVATORS (Voron, RatRig, Kit Makers)

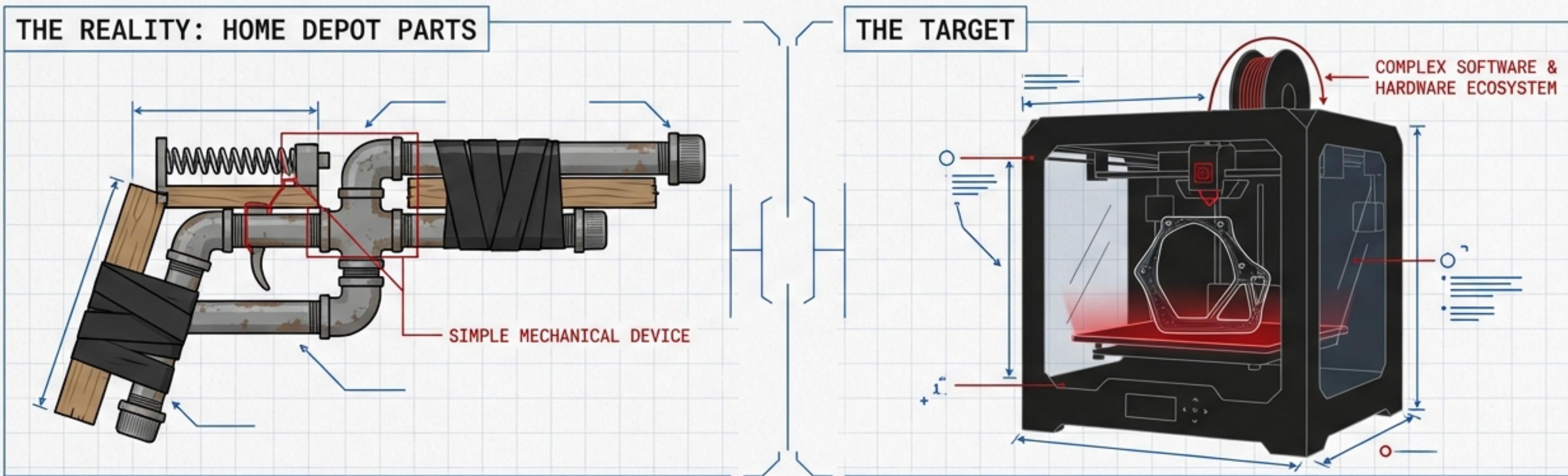
Strategy: **Bankruptcy.**

Reason: Cannot afford complex verification databases. Will be sued for “facilitating” non-compliant manufacturing.

Result: **The death of open-source hardware.**



SOLVING A MOVIE-PLOT PROBLEM



- ❖ **THE DATA:** 92,000 "Ghost Guns" recovered (2017-2021).
- ❖ **THE CONTEXT:** This number inflates the threat by including legally bought kits (Polymer80) and basic hardware store pipe guns. The number of homicides involving fully 3D printed firearms is infinitesimally small.

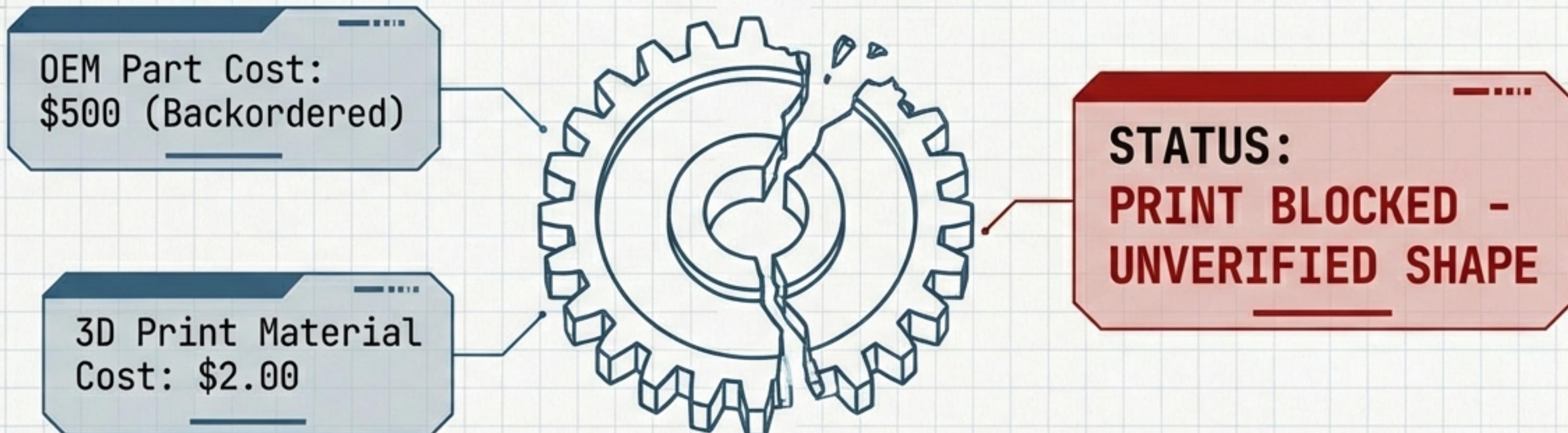
- ❖ **CASE STUDY:** The assassination of Shinzo Abe was committed with a homemade pipe gun, not a 3D print.
- ❖ **CONCLUSION:** Criminals do not follow firmware laws. This legislation only disarms and surveils law-abiding engineers.

CODE IS SPEECH. PRINTING IS EXPRESSION.



- ⊕ **Legal Precedent:** Defense Distributed Settlement (2018) effectively treated digital blueprints as protected speech.
- ⊕ **The Violation:** Designing an object is an act of expression. Blocking the OUTPUT of that design is a **violation** of the **First Amendment**.
- ⊕ **The Standard:** This law enforces a **“Guilty until proven innocent”** model on every print job.

THE DEATH OF RIGHT TO REPAIR

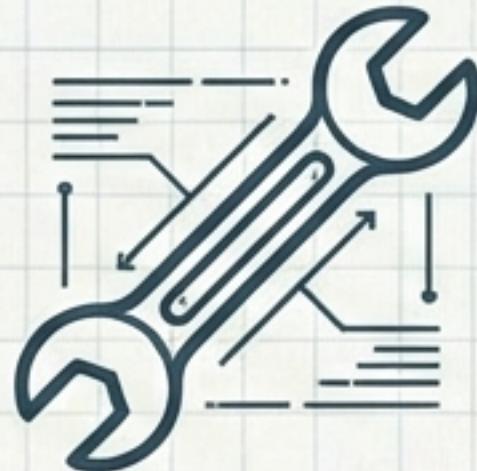


⊕ **The Scenario:** You need a tractor part, a car handle, or an appliance gear. The manufacturer refuses to sell it.

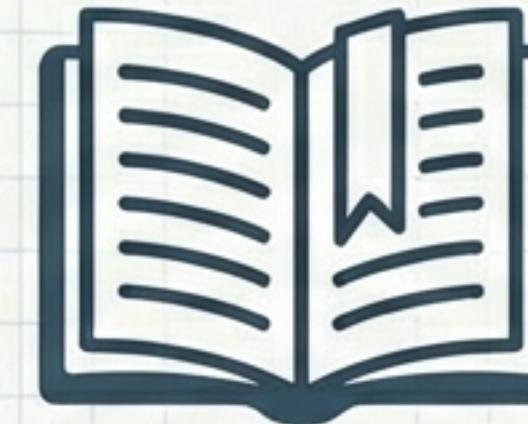
⊕ **The Reality:** The algorithm flags your replacement part as a 'Copyright Violation' or 'Unknown Geometry'.

⊕ **Impact:** The Right to Repair is silently killed by the Right to Block.

HOW WE FIGHT BACK: EDUCATE, DON'T RAGE



The Maker



The Teacher



The Engineer

- Contact Representatives in Washington & New York.
- Frame the Argument: Innovation, Education, Privacy, Small Business.
- AVOID:** Angry rants or strictly gun-focused arguments.
- Message: "I am a teacher/engineer/maker. This law destroys STEM education and small business prototyping."



THE FUTURE OF MAKING IS AT STAKE.

HB 2321 is not a gun law.
It is a manufacturing license law.
It replaces Permissionless Innovation
with Permission-Based Making.

**DON'T LET THE FUTURE BE:
PERMISSION DENIED.**