

Japan Automotive Recycling System - The ECO-R Experience

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Every thing was **OK!**

~During economic growth period~

A barbecue!

We could collect materials easily.



Neighborhood complained to us about smoke.
(Even my white pants at clotheshorse became black!)

We could get money...

But social status of us were still low, while enjoying our barbecue.

Low status job can't get competent staff.

Then we might be never grow up, in the future...

It's **OK?**

We needed improvement.

~Reconciliation with **neighborhood**~

We had to improve . . .

The way of dismantling.

- ✓ More clean
- ✓ More safe
- ✓ More refine



Environmental
Eco friendly

Improving the status of our industry

“Ishii car industry” changed to “**Eco-R**”.

About us (Video)

Japanese way of ELV dismantling. (Example)



Collect A/C GAS



Pre treatment



Hand dismantling



Machine dismantling



Export parts.



Used parts for Domestic



Non-ferrous materials



Ferrous material

Additionally, Eco-R have...

Used Parts shop



Rebuilt car shop





Material recycling in Japan

Ferrous materials

To electric furnace.

- ✓ Part of it become casting iron parts for new car.
- ✓ Another part of it becomes reinforcing rod.

Non-ferrous materials

Metals are deal with by domestic recyclers. Plastics are disposed as ASR.





Used parts from Japan

For domestic

Aim at “perfection”.

- ✓ flawless

- ✓ Perfect matching

Computer system is necessary.

Automatic storehouse is frequently used.

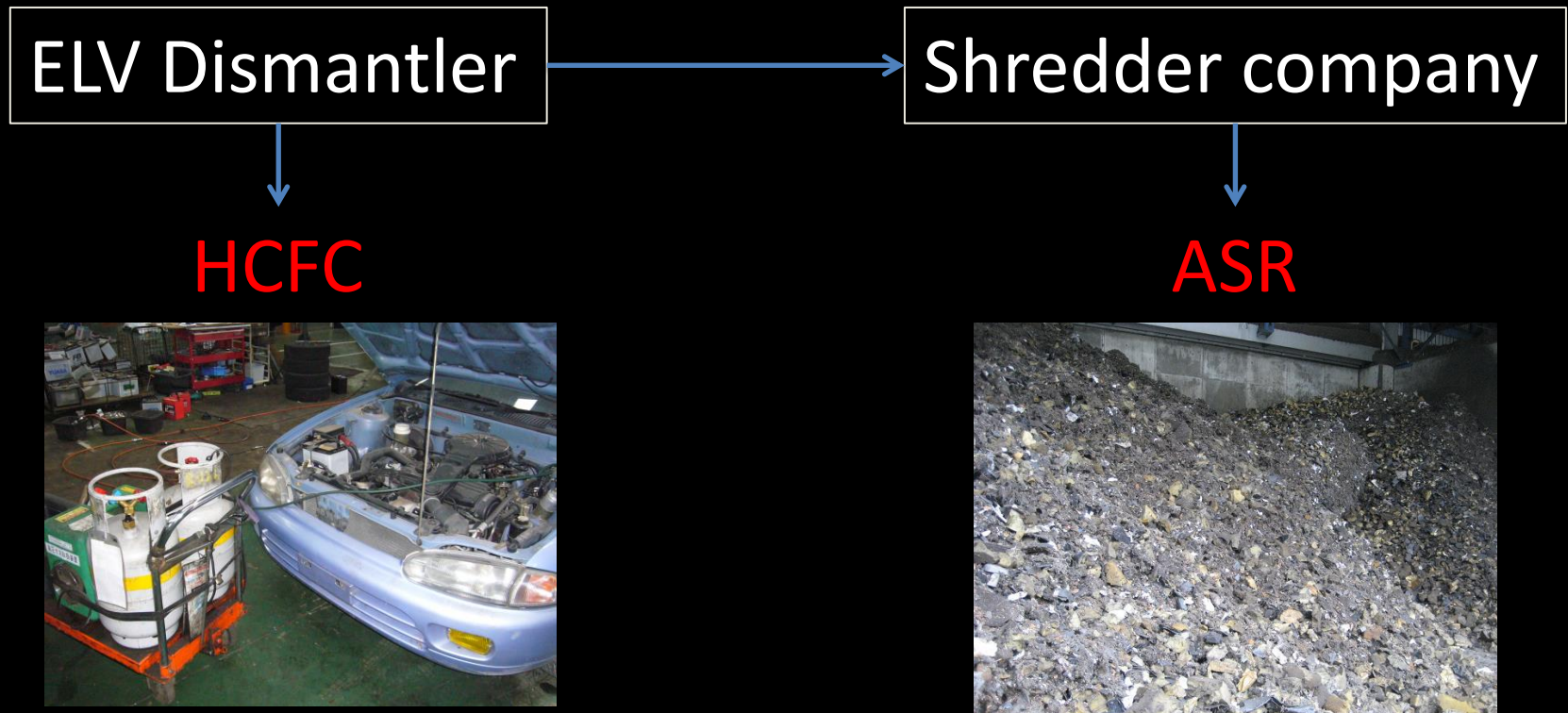


Export parts

Separately treat for each export country.

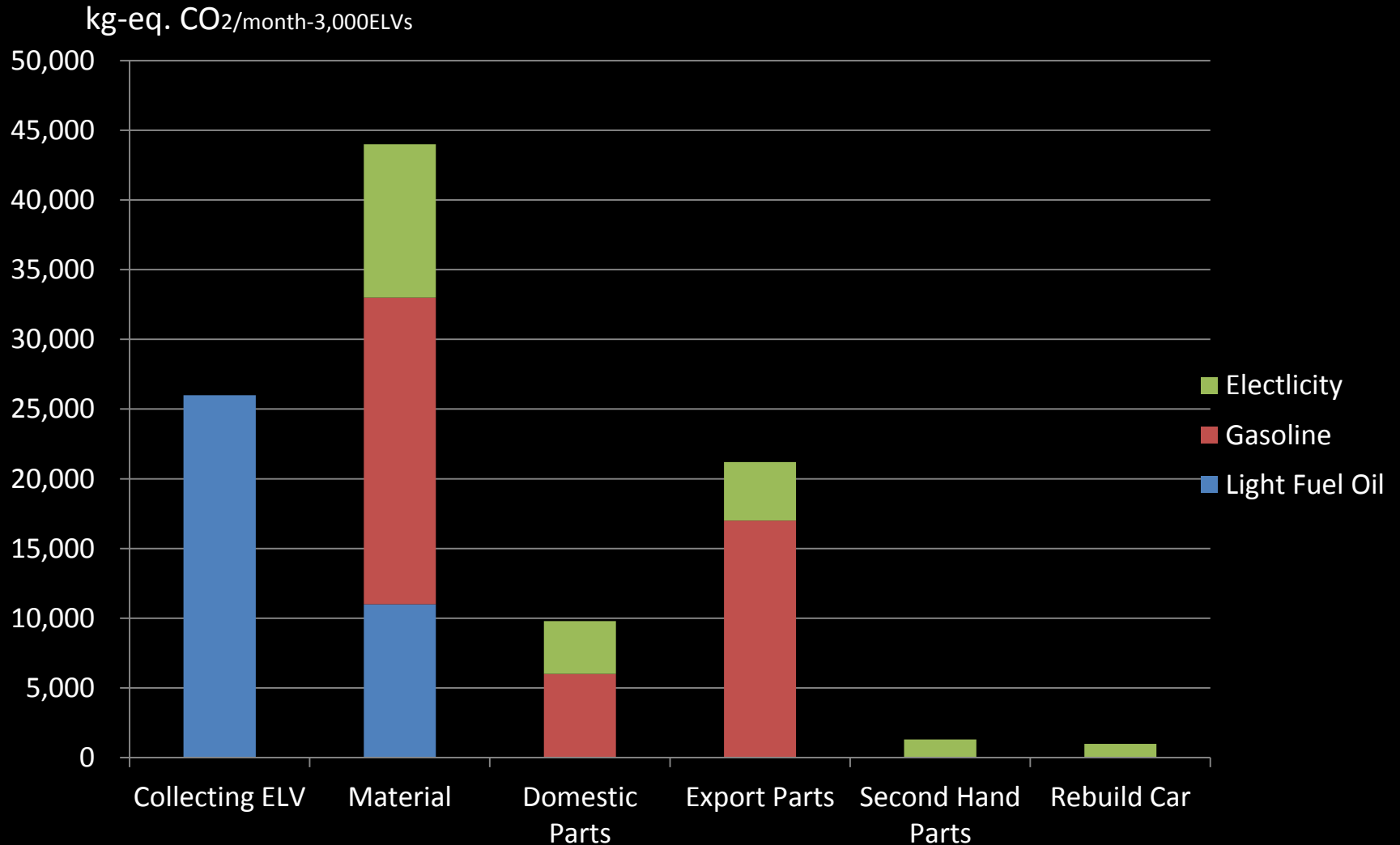


Characteristic of Japanese ELV dismantling: Environment

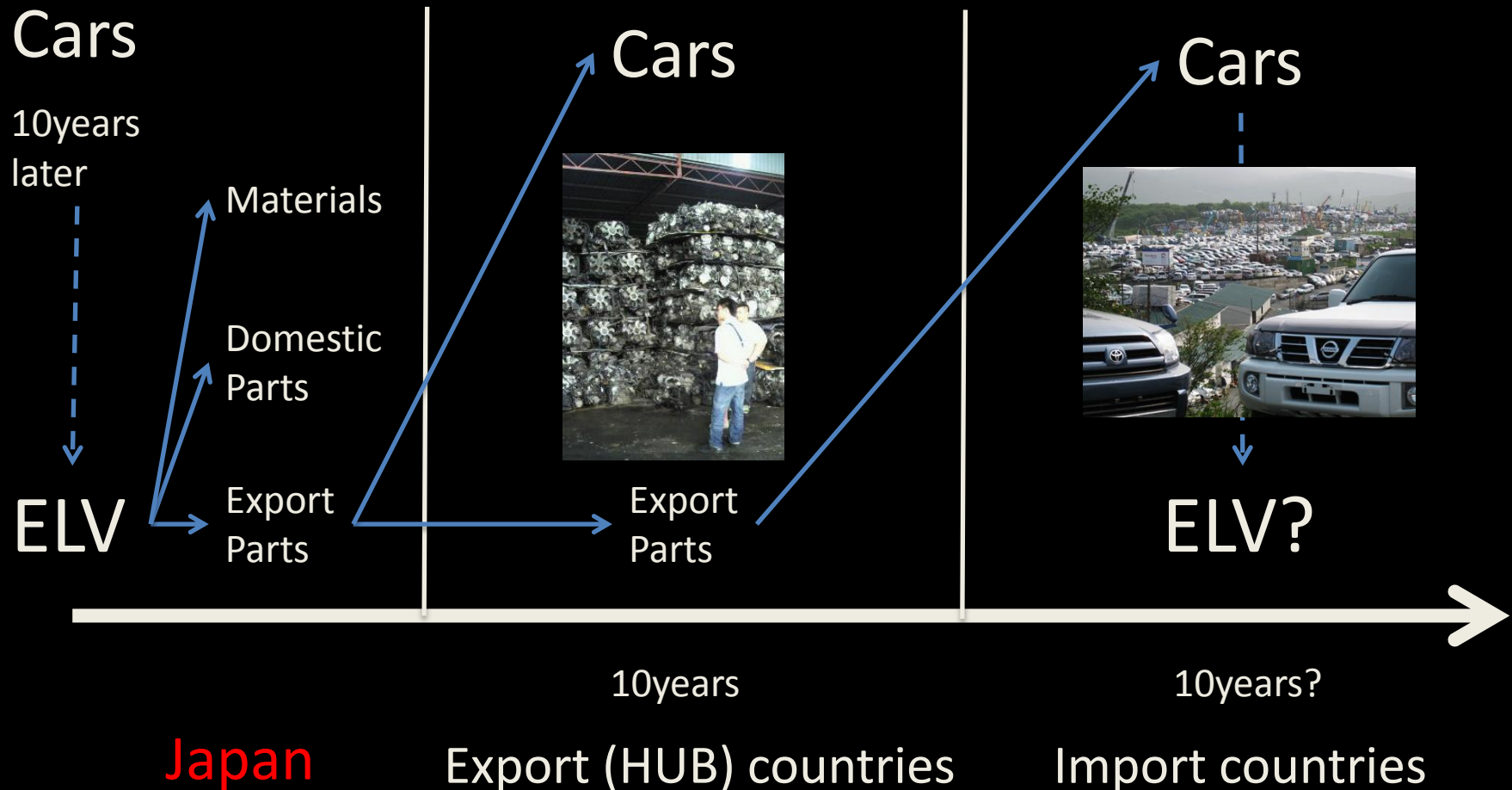


All of these cost s were paid by consumers. (deposit)

Environmental Assessment of Eco-R (Life Cycle CO₂ emission)



Characteristic of Japanese ELV dismantling: Time



ELVs remain inside Japan for a very short time, compare with another countries, as "Car".

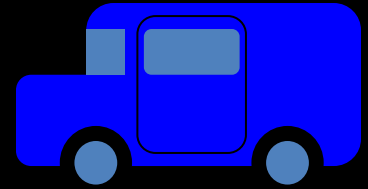
If there are no electric furnace near the final user countries, ferrous materials from ELVs could be “garbage”.



Photo by Prof. J.S.Yu



One ELV needs twice areas of parking in the final user country. That land cannot be used for agriculture.



ELVs from Japan, create motorization in developing country.

But, ELVs create **environmental problem** at the same time.

Do something for **the future.**



Japanese **ELV dismantler** can ■ ■ ■

Next challenge



of Eco-R

From CSR to CSV

CSR:

Corporate Social Responsibility

- ✓ No need to be related to one's main occupation.
- ✓ It's like a donation.
- ✓ So, if someone's main occupation go slump, he/she stop it.

CSV:

Creating shared Value

- ✓ Try to solve social problem.
- ✓ Use one's main occupation to give solution.
- ✓ The solution will make new value not only among one's main occupation, but also among society.



ELV dismantling is **the activity to prevent environmental problems.**

Ignoble dismantling will cause the environmental problem.

Restoration of environment needs high cost.

Appropriate dismantling can avoid environmental problem, but it need initial cost.

We should appeal more strongly!

We can get Win-Win relation if government make subsidy.

Next challenge of Eco-R



Export environmental friendly ELV dismantling technology.



By that technology, we can avoid paying the environment restoration cost.



Usually these cost paid by the government.



Government can save money (social costs), and we can get money by our main occupation.

Malaysia

Land scale is approx 100,000 sq ft at Klang ,Malaysia
New concept factory is now under construction!



Australia



Create a bright future !



Thank you!

