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**November 2023**

**Press Clippings**

**Collated by Portcare International**



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## **Cargo Integrity Group**

*Press clippings relating to the following press release:*

### **Use of CTU Code boosts supply chain safety and savings, survey finds**

Distributed on 10 November 2023

**Collated by Portcare International**

18 November 2023

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### Supply chain safety

The seven industry bodies dedicated to container safety, collaborating as the Cargo Integrity Group, have highlighted an independent study carried out by researchers at Italian University [Politecnico di Torino](#) into shipper and forwarder application of the CTU Code, the Code of Practice for Packing of Cargo Transport Units. The 2023 survey yielded encouraging signs of adoption and highlighted several convincing arguments – including financial benefits for its use.

The survey highlights multiple benefits to CTU Code users including:

- Improved safety, reputation and supply chain coordination
- Decreased cargo damage, environmental impact and operational inefficiencies
- Those using the CTU Code incurred no extra costs in employees, contractors, or vehicles
- Any increase in loading and waiting times were typically offset by CTU Code related efficiencies overall
- Annual costs and penalties reduced from €670,000 pre-implementation of the Code to €13,000 post-implementation
- Extra costs as a percentage of revenue reduced from 37% to 10%.

“The application of the CTU Code to cargo loading and transportation processes can increase the safety level of transport activities, and also improve business processes and competitiveness. The results show that the use of the CTU Code provides an increase in safety with a drastic reduction of loading accidents and damage to goods, as well as important benefits in terms of costs, improved efficiency, corporate image and reduced environmental impact,” the authors said.

Welcoming the Politecnico survey, the CEO of ICHCA, one of the group’s founding associations, Richard Steele said, “As far as we are aware, this is the first example of publicly available empirical evidence about the use of the CTU Code made by forwarders, shippers and others responsible for safe packing. Notwithstanding the regional focus of this particular survey, we believe the results to be genuinely encouraging. They show that good operational management, efficiency and safety are partners, not opposites.”

To facilitate a greater degree of understanding and wider use of what is a lengthy and complex document, the Group has published a Quick Guide to the CTU Code, together with an editable and saveable Checklist of actions and responsibilities for the guidance of those undertaking the packing of cargoes in containers. These materials are now available in all six of the United Nations’ official languages, as well as Italian.

The full results of the Politecnico di Torino’s survey can be accessed here <https://www.sciencedirect.com/science/article/pii/S2590198223000738?via%3Dihub>

Source : [Maritime Advocate](#)

9 November 2023

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## Use of CTU Code boosts supply chain safety and savings, survey finds

posted by AJOT | Nov 09 2023 at 01:52 PM | [Logistics](#)

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In the words of the report's authors (Bruno, et al.), "The application of the CTU Code to cargo loading and transportation processes can increase the safety level of transport activities, and also improve business processes and competitiveness. The results show that the use of the CTU Code provides an increase in safety with a drastic reduction of loading accidents and damage to goods, as well as important benefits in terms of costs, improved efficiency, corporate image and reduced environmental impact."

The Cargo Integrity Group continues its efforts to underline the positive effects of the widespread use of guidance in the CTU Code, which is the Code of Practice for Packing of Cargo Transport Units jointly published by the International Maritime Organisation (IMO), the International Labour Organization (ILO) and the United Nations Economic Commission for Europe (UNECE)<sup>1</sup>.

The Group is dedicated to improving the safety, security and environmental performance throughout the logistics supply chain. In particular, it is concerned to promote safe

methods to those responsible for the packing of cargoes in containers, securing them and accurately declaring them.

Welcoming the Politecnico survey, the CEO of ICHCA, one of the Group's founding associations, Richard Steele said, "As far as we are aware, this is the first example of publicly available empirical evidence about the use of the CTU Code made by forwarders, shippers and others responsible for safe packing. Notwithstanding the regional focus of this particular survey, we believe the results to be genuinely encouraging. They show that good operational management, efficiency and safety are partners, not opposites."

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Footnotes:

<sup>1</sup><http://www.imo.org/en/OurWork/...>

<sup>2</sup> Arabic, Chinese, English, French, Russian and Spanish. Downloadable [HERE](#)

10 November 2023

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## **Use of CTU Code boosts supply chain safety and savings, survey finds**

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**10 November 2023**



The survey highlights multiple benefits to CTU Code users including: improved safety, reputation and supply chain coordination; decreased cargo damage, environmental impact and operational inefficiencies; those using the CTU Code incurred no extra costs in employees, contractors, or vehicles; any increase in loading and waiting times were typically offset by CTU Code related efficiencies overall; annual costs and penalties reduced from €670,000 pre-implementation of the Code to €13,000 post-implementation; extra costs as a percentage of revenue reduced from 37% to 10%.

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"Notwithstanding the regional focus of this particular survey, we believe the results to be genuinely encouraging. They show that good operational management, efficiency and safety are partners, not opposites."

10 November 2023

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## CTU Code cuts costs and boosts efficiency, says study

[ November 10, 2023 // [Chris Lewis](#) ]

An independent study carried out on behalf of the Cargo Integrity Group by researchers at Italian University [Politecnico di Torino](#) into shipper and forwarder application of the CTU Code found benefits to including improved safety, reputation and supply chain coordination and decreased cargo damage, environmental impact and operational inefficiencies.

Those using the CTU Code incurred no extra costs in employees, contractors, or vehicles and any increase in loading and waiting times were typically offset by CTU Code related efficiencies overall. Annual costs and penalties reduced from €670,000 pre-implementation of the Code to €13,000 post-implementation while extra costs as a percentage of revenue reduced from 37% to 10%

Chief executive of ICHCA, one of the Group's founding associations, Richard Steele said: "As far as we are aware, this is the first example of publicly available empirical evidence about the use of the CTU Code made by forwarders, shippers and others responsible for safe packing. Notwithstanding the regional focus of this particular survey, we believe the results to be genuinely encouraging. They show that good operational management, efficiency and safety are partners, not opposites."

The Group has published a Quick Guide to the CTU Code, together with an editable and saveable Checklist of actions and responsibilities, now available in all six of the United Nations' official languages, as well as Italian.

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**Tags:** [Cargo Integrity group](#); [CTU Code](#)



10 November 2023

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## Study Shows Benefits of Using CTU Code in Supply Chain

A new study has found that the use of the CTU Code can significantly improve safety, efficiency, and costs in the supply chain. The study, which was conducted by researchers at the Italian University Politecnico di Torino, surveyed shippers and forwarders who use the CTU Code and found that they have incurred no extra costs in employees, contractors, or vehicles. The study also found that any increase in loading and waiting times were typically offset by CTU Code related efficiencies overall. Annual costs and penalties were reduced from €670,000 pre-implementation of the Code to €13,000 post-implementation. Extra costs as a percentage of revenue were reduced from 37% to 10%.

The CTU Code is a set of guidelines for the safe packing of cargo transport units (CTUs), such as containers. The code was published by the International Maritime Organisation (IMO), the International Labour Organization (ILO), and the United Nations Economic Commission for Europe (UNECE).

The study's findings are significant because they show that the CTU Code can be used to improve safety and efficiency without increasing costs. This is important because the supply chain is a complex and expensive industry. In fact, the global supply chain is estimated to be worth over \$20 trillion.

The Cargo Integrity Group, which is a group of seven industry bodies dedicated to container safety, is urging the wider adoption of the CTU Code. The group has published a 'Quick Guide' and an editable and saveable Checklist to help businesses implement the code.

The benefits of using the CTU Code are clear: it can improve safety, reduce cargo damage, decrease environmental impact, increase efficiency, improve corporate image, and reduce costs. Businesses in the supply chain should consider using the CTU Code to improve their operations.

In addition to the benefits listed above, the CTU Code can also help to reduce the risk of accidents. Cargo accidents can be very costly, both in terms of human life and financial loss. In fact, the cost of cargo accidents is estimated to be over \$100 billion per year.

The CTU Code is a valuable tool that can help businesses to improve their operations and reduce their costs. Businesses should consider using the CTU Code to make their supply chains safer, more efficient, and more cost-effective.

13 November 2023

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## FIATA - USE OF CTU CODE BOOSTS SUPPLY CHAIN SAFETY AND SAVINGS, SURVEY FINDS

Monday, November 13, 2023

SOURCE: FIATA

**Geneva, 9 November 2023** – *The seven industry bodies dedicated to container safety, collaborating as the Cargo Integrity Group, highlight an independent study carried out by researchers at Italian University Politecnico di Torino into shipper and forwarder application of the CTU Code. The 2023 survey yielded encouraging signs of adoption and highlighted several convincing arguments – including financial benefits for its use*

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In the words of the report's authors (Bruno, et al.), "The application of the CTU Code to cargo loading and transportation processes can increase the safety level of transport activities, and also improve business processes and competitiveness. The results show that the use of the CTU Code provides an increase in safety with a drastic reduction of loading accidents and damage to goods, as well as important benefits in terms of costs, improved efficiency, corporate image and reduced environmental impact."

The Cargo Integrity Group continues its efforts to underline the positive effects of the widespread use of guidance in the CTU Code, which is the Code of Practice for Packing of Cargo Transport Units jointly published by the International Maritime Organisation (IMO), the International Labour Organization (ILO) and the United Nations Economic Commission for Europe (UNECE)<sup>1</sup>.

The Group is dedicated to improving the safety, security and environmental performance throughout the logistics supply chain. In particular, it is concerned with promoting safe methods to those responsible for the packing of cargoes in containers, securing them and accurately declaring them.

Welcoming the Politecnico survey, the CEO of ICHCA, one of the Group's founding associations, Richard Steele said, "As far as we are aware, this is the first example of publicly available empirical evidence about the use of the CTU Code made by forwarders, shippers and others responsible for safe packing. Notwithstanding the regional focus of this particular survey, we believe the results to be genuinely encouraging. They show that good operational management, efficiency and safety are partners, not opposites."

To facilitate a greater degree of understanding and wider use of what is a lengthy and complex document, the Group has published a '**Quick Guide**' to the CTU Code, together with an editable and saveable **Checklist** of actions and responsibilities for the guidance of those undertaking the packing of cargoes in containers. These materials are now available in all six of the United Nations' official languages, as well as Italian<sup>2</sup>.

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Footnotes:

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## **About the Cargo Integrity Group**

The Cargo Integrity Group brings together international freight transport and cargo handling organisations with different roles in the supply chain and a shared dedication to improving safety, security and environmental performance throughout the logistics supply chain. The [Bureau International des Containers](#), the [Container Owners Association](#), the [Global Shippers Forum](#), the [International Cargo Handling Co-ordination Association](#), [FIATA](#), the [TT Club](#) and the [World Shipping Council](#) are co-operating on a range of activities to further the adoption and implementation of crucial safety practices and regulations.

Read the full report here: [CIG Italian Report on CTU Code Usage](#).

27 November 2023

## CTU Code: Use it or lose it

// BY PETER MACKAY ON 27 NOV 2023



Damage to dangerous cargo in transit leads to financial losses and risks to people and the environment. A new study finds that applying the CTU Code can help

The Code of Practice for Packing of Cargo Transport Units (CTU Code) was introduced in 2014 by the International Maritime Organisation (IMO), International Labour Organisation (ILO) and the UN Economic Commission for Europe (ECE) to address what were widely seen as shortcomings in cargo securing practices in the containerised supply chain. While not a regulatory code as such, it is referenced in some transport regulations and it has been promoted by protection and indemnity (P&I) insurers and other marine safety bodies as the best source of information on how to ship containerised goods by sea safely. The Code's applicability to the transport of dangerous goods by sea is underlined by its reference in the International Maritime Dangerous Goods (IMDG) Code and by other modal rulebooks.

What has not hitherto been clear is how effective the CTU Code is in improving safety. To attempt to measure that, a research programme was initiated by the Politecnico di Torino at the start of 2022, based on an empirical survey of 26 Italian companies. The results of that study, published this year, showed that the use of the CTU Code provides an increase in safety with a drastic reduction of loading accidents and damage to goods, as well as important benefits in terms of costs, improved efficiency, corporate image and reduced environmental impact.

“As far as we are aware, this is the first example of publicly available empirical evidence about the use of the CTU Code made by forwarders, shippers and others responsible for safe packing,” said Richard Steele, CEO of ICHCA and one of the founding associations in the Cargo Integrity Group, which is focused on safety in the maritime cargo chain. “Notwithstanding the regional focus of this

particular survey, we believe the results to be genuinely encouraging. They show that good operational management, efficiency and safety are partners, not opposites.”

## GOOD FOR SOME

The first part of the survey looked at the critical issues faced by respondents, all of which reported that they faces such issues in their supply chains. The main problems concerned damaged goods (34 per cent), delays (23 per cent), additional costs (23 per cent), loss of cargo (10 per cent) and penalty payments (10 per cent). The most problematic parts of the chain appeared to be during loading at the point of origin and damage during the maritime transport leg.

Interestingly, there appeared to be two distinct classes of company: those that use the CTU Code as a regular part of their operations, and those that do not – either because they are unaware of it, do not believe it would add any benefit or believe it would be burdensome and expensive to implement. On the other side of the fence, those that do use the CTU Code reported increased safety for goods and for people, a reduction in cargo damage, improved business reputation, and better coordination between the various parties in the supply chain. Other benefits include a reduction in environmental impact, and time and cost savings. At the same time, the survey found that those using the CTU Code incurred no additional costs – in fact, there was a drastic reduction in penalties and other additional costs arising from incidents.

## WHERE TO NEXT?

The study’s authors acknowledge that their survey is based on a small sample and that further work might be useful to give a broader view. However, this study is the first to address the application of the CTU Code and provides an important contribution to understanding in the field. Further research could analyse the degree to which the CTU Code is used in different geographic areas. In addition, the impact of the application of the Code over time could be evaluated, to understand whether the benefits obtained were immediate and/or constant over time and whether there is some sort of learning curve. Moreover, research could be extended to other actors in the supply chain, such as insurers, investigating the topic from the perspective of cargo damage management and cargo incidents. The UN ECE has already suggested that further research could test the validity of the CTU code in a real-world environment for a defined transport route, with different transport modes, involving all stakeholders in the supply chain.

Meanwhile, the Cargo Integrity Group is continuing with its efforts to underline the positive effects of the widespread use of guidance in the CTU Code and, to facilitate a greater degree of understanding and wider use of what is a lengthy and complex document, has published a ‘Quick Guide’ to the CTU Code, together with an editable and saveable Checklist of actions and responsibilities for the guidance of those undertaking the packing of cargoes in containers. These materials are now available in all six of the official languages of the UN, as well as Italian. They can be downloaded from the websites of the participants in the Group, including the World Shipping Council at <https://www.worldshipping.org/container-integrity>.

More detail of the survey methodology and results can be found at [www.sciencedirect.com/science/article/pii/S2590198223000738](http://www.sciencedirect.com/science/article/pii/S2590198223000738).

10 November 2023

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## Use of CTU Code boosts supply chain safety and savings, survey finds

in [International Shipping News](#) 10/11/2023



The seven industry bodies dedicated to container safety, collaborating as the Cargo Integrity Group, highlight an independent study carried out by researchers at Italian University Politecnico di Torino into shipper and forwarder application of the CTU Code. The 2023 survey yielded encouraging signs of adoption and highlighted several convincing arguments – including financial benefits for its use

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In the words of the report's authors (Bruno, et al.), "The application of the CTU Code to cargo loading and transportation processes can increase the safety level of transport activities, and also improve business processes and competitiveness. The results show that the use of the CTU Code provides an increase in safety with a drastic reduction of loading accidents and damage to goods, as well as important benefits in terms of costs, improved efficiency, corporate image and reduced environmental impact."

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Source: World Shipping Council, Cargo Integrity Group

10 November 2023

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## CTU Code Boosts Supply Chain Safety

10th November 2023



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13 November 2023

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By Our Correspondent | 13 Nov 2023 4:45 PM



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[Agility Q32023 net profit doubles, revenue up 41%](#)

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18 November 2023

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24 November 2023

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# Use Of CTU Code Boosts Supply Chain Safety And Savings, Survey Finds

- [November 24, 2023](#)
- [Maritime News, Supply Chain](#)
- [By Editor](#)

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The Cargo Integrity Group continues its efforts to underline the positive effects of the widespread use of guidance in the CTU Code, which is the Code of Practice for Packing of Cargo Transport Units jointly published by the International Maritime Organization (IMO), the International Labor Organization (ILO) and the United Nations Economic Commission for Europe (UNECE).

The Group is dedicated to improving the safety, security and environmental performance throughout the logistics supply chain. In particular, it is concerned to promote safe methods to those responsible for the packing of cargoes in containers, securing them and accurately declaring them.

Welcoming the Politecnico survey, the CEO of ICHCA, one of the Group’s founding associations, Richard Steele said, “As far as we are aware, this is the first example of publicly available empirical evidence about the use of the CTU Code made by forwarders, shippers and others responsible for safe packing.

“Notwithstanding the regional focus of this particular survey, we believe the results to be genuinely encouraging. They show that good operational management, efficiency and safety are partners, not opposites.”

21 November 2023

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# CTU Code use among shippers, forwarders boosts savings: study

November 21, 2023

- *Using the Cargo Transport Units Code, a guideline for packing cargo units, yielded positive financial results for shippers and forwarders*
- *This is according to a recent study by Italian University Politecnico di Torino*
- *Code users saw annual costs and penalties plummet from €670,000 pre-implementation of the Code to €13,000 post-implementation*
- *Extra costs as a percentage of revenue also decreased from 37% to 10%.*
- *Shippers and forwarders noted improvements in safety, reputation, and supply chain coordination; and reduced cargo damage, environmental impact, and operational inefficiencies*

Shippers and forwarders utilizing the Code of Practice for Packing of Cargo Transport Units (CTU Code) experienced significant benefits, including a substantial reduction in yearly costs and penalties, according to results of a recent study conducted by Italian University Politecnico di Torino.

The study into shipper and forwarder application of the CTU Code noted the tangible financial advantages associated with adherence to the Code.

Annual costs and penalties plummeted from €670,000 pre-implementation of the Code to €13,000 post-implementation. Extra costs as a percentage of revenue also decreased from 37% to 10%.

Other benefits include improved safety, reputation and supply chain coordination; and decreased cargo damage, environmental impact and operational inefficiencies.

Those using the CTU Code also incurred no extra costs in employees, contractors, or vehicles; and any increase in loading and waiting times were typically offset by CTU Code-related efficiencies overall.

Jointly published by the International Maritime Organisation, the International Labour Organization, and the United Nations Economic Commission for Europe, the CTU Code is a non-mandatory global code of practice for the handling and packing of cargo transport units for transportation by sea and land.

Within the CTU Code, comprehensive information and references on all aspects of loading and securing of cargo in containers and other intermodal transport are provided, taking account of the requirements of all sea and land transport modes. The CTU Code applies to transport operations throughout the entire intermodal transport chain and provides guidance not only to those responsible for packing and securing cargo, but also to those who receive and unpack such units. The Code of Practice also addresses issues such as training and the packing of dangerous goods.

According to study authors Giovanna Bruno, Giordano Bruno Guerrini, and Claudia Caballini Bruno, "The application of the CTU Code to cargo loading and transportation processes can increase the safety level of transport activities, and also improve business processes and competitiveness. The results show that the use of the CTU Code provides an increase in safety with a drastic reduction of loading accidents and damage to goods, as well as important benefits in terms of costs, improved efficiency, corporate image and reduced environmental impact."

The study was highlighted by the Cargo Integrity Group, seven industry bodies dedicated to container safety: Bureau International des Containers, Container Owners Association, Global Shippers Forum, International Cargo Handling Coordination Association (ICHCA), Fédération Internationale des Associations de Transitaires et Assimilés, TT Club, and World Shipping Council.

ICHCA CEO Richard Steele of ICHCA, said in a statement: "This is the first example of publicly available empirical evidence about the use of the CTU Code made by forwarders, shippers and others responsible for safe packing. Notwithstanding the regional focus of this particular survey, we believe the results to be genuinely encouraging, showing that good operational management, efficiency, and safety are partners, not opposites."

To make the CTU Code easier to understand and use, the Group created a quick guide and a customizable checklist. These resources, in all six United Nations languages and Italian, aim to simplify the process and promote wider adherence to the guidelines



9 November 2023

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# World Shipping Council: CTU Code improves supply chain safety and savings

by The Editorial Team  
[November 9, 2023](#)  
in [Loss Prevention](#)



Credit: Shutterstock

The seven industry bodies dedicated to container safety, collaborating as the Cargo Integrity Group, highlight an independent study carried out by researchers at Italian University Politecnico di Torino into shipper and forwarder application of the CTU Code, World Shipping Council highlights.

The 2023 survey yielded encouraging signs of adoption and highlighted several convincing arguments – including financial benefits for its use.

**The survey highlights multiple benefits to CTU Code users including:**

- Improved safety, reputation and supply chain coordination
- Decreased cargo damage, environmental impact and operational inefficiencies
- Those using the CTU Code incurred no extra costs in employees, contractors, or vehicles

- Any increase in loading and waiting times were typically offset by CTU Code related efficiencies overall
- Annual costs and penalties reduced from €670,000 pre-implementation of the Code to €13,000 post-implementation
- Extra costs as a percentage of revenue reduced from 37% to 10%

In the words of the report's authors (Bruno, et al.), "The application of the CTU Code to cargo loading and transportation processes can increase the safety level of transport activities, and also improve business processes and competitiveness. The results show that the use of the CTU Code provides an increase in safety with a drastic reduction of loading accidents and damage to goods, as well as important benefits in terms of costs, improved efficiency, corporate image and reduced environmental impact."

#### **Did you know?**

The CTU Code is intended to assist the industry, employers' and workers' organizations as well as Governments in ensuring the safe stowage of cargo in containers. The CTU Code could also be used as a reference base for national regulations and could become a model for internationally harmonized legislation in this field, should such requirements arise.

According to WSC, the Cargo Integrity Group continues its efforts to underline the positive effects of the widespread use of guidance in the CTU Code, which is the Code of Practice for Packing of Cargo Transport Units jointly published by the International Maritime Organisation (IMO), the International Labour Organization (ILO) and the United Nations Economic Commission for Europe (UNECE).

The Group is dedicated to improving the safety, security and environmental performance throughout the logistics supply chain. In particular, it is concerned to promote safe methods to those responsible for the packing of cargoes in containers, securing them and accurately declaring them.

**Notwithstanding the regional focus of this particular survey, we believe the results to be genuinely encouraging. They show that good operational management, efficiency and safety are partners, not opposites.**

..welcoming the Politecnico survey, the CEO of ICHCA, one of the Group's founding associations, Richard Steele said.

As informed, to facilitate a greater degree of understanding and wider use of what is a lengthy and complex document, the Group has published a 'Quick Guide' to the CTU Code, together with an editable and saveable Checklist of actions and responsibilities for the guidance of those undertaking the packing of cargoes in containers. These materials are now available in all six of the United Nations' official languages, as well as Italian.

13 November 2023

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## Using CTU Code “boosts supply chain safety and savings”

**News** 13 Nov 2023

The Cargo Integrity Group cites a report by researchers at Italy’s Politecnico di Torino, which concludes that CTU Code adopters have achieved improved safety and reputation and more cost-effective supply chain coordination



Correctly Packed Containers  
Images Copyright: EXIS Technologies

As previously discussed, the CIG is made up of seven industry associations to raise awareness and encourage use of the 2014 IMO/ILO/UN-ECE Code of Practice for Packing of Cargo Transport Units (CTU Code), for which ICHCA acted as Secretariat. CIG’s members are ICHCA, BIC, COA, FIATA, GSF, TT Club and WSC.

Benefits of using the Code reported by the university in Turin are:

- Improved safety, reputation and supply chain coordination
- Decreased cargo damage and environmental impact, and reduced operational inefficiencies
- Those using the CTU Code incurred no extra costs in employees, contractors, or vehicles

- Any increase in loading and waiting times were typically offset by CTU Code-related efficiencies overall
- **Annual costs and penalties reduced from €670,000 pre-implementation of the Code to €13,000 post-implementation**
- Extra costs as a percentage of revenue reduced from 37% to 10%

In the words of the report's authors (*Bruno, et al.*), "The application of the CTU Code to cargo loading and transportation processes can increase the safety level of transport activities, and also improve business processes and competitiveness. The results show that the use of the CTU Code provides an increase in safety with a drastic reduction of loading accidents and damage to goods, as well as important benefits in terms of costs, improved efficiency, corporate image and reduced environmental impact."

CIG continues its efforts to underline the positive effects of the widespread use of guidance in the CTU Code. The Group is dedicated to improving the safety, security and environmental performance throughout the logistics supply chain. In particular, it is concerned to promote safe methods to those responsible for the packing of cargoes in containers, securing them and accurately declaring them.

Welcoming the Politecnico survey, the CEO of ICHCA, Richard Steele, said: "As far as we are aware, this is the first example of publicly available empirical evidence about the use of the CTU Code made by forwarders, shippers and others responsible for safe packing. Notwithstanding the regional focus of this particular survey, we believe the results to be genuinely encouraging. They show that good operational management, efficiency and safety are partners, not opposites."

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**Fig. 1.** Consequences of badly packed and secured cargo: lack of longitudinal securing (a); inadequate side wall strength (b); unsecured packages (c); spilled liquid/dangerous goods (d); consequences of insufficient control of humidity, condensation damage (e); consequences of improper deceleration and acceleration, shock failure (f); consequences of the use of unsuitable GTUs, overstressed floor (g); consequences of overloading of GTUs, tipped container handler (h). Source: GTU Code, informative material [1].

Politecnico di Torino - study extract