

## IZA Overview

Andrew Green  
Executive Director

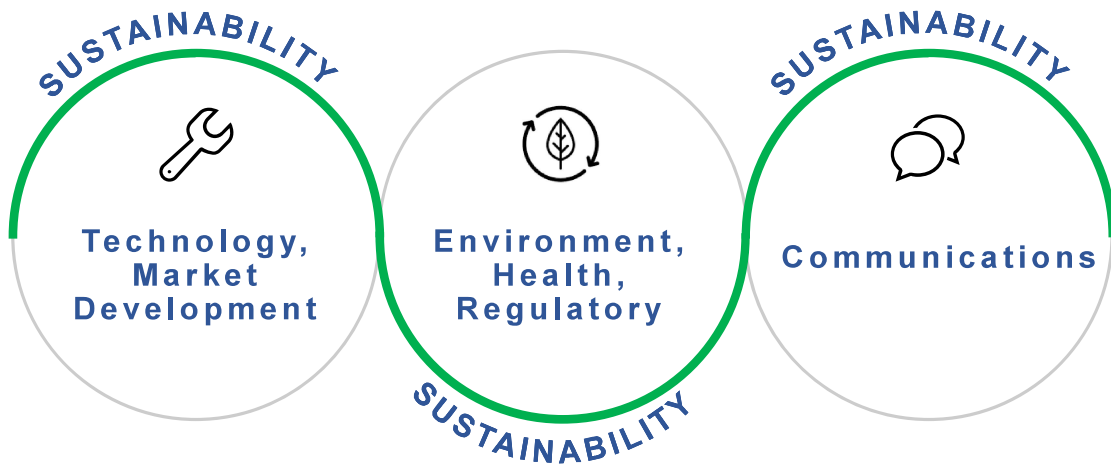


## IZA Locations and Members

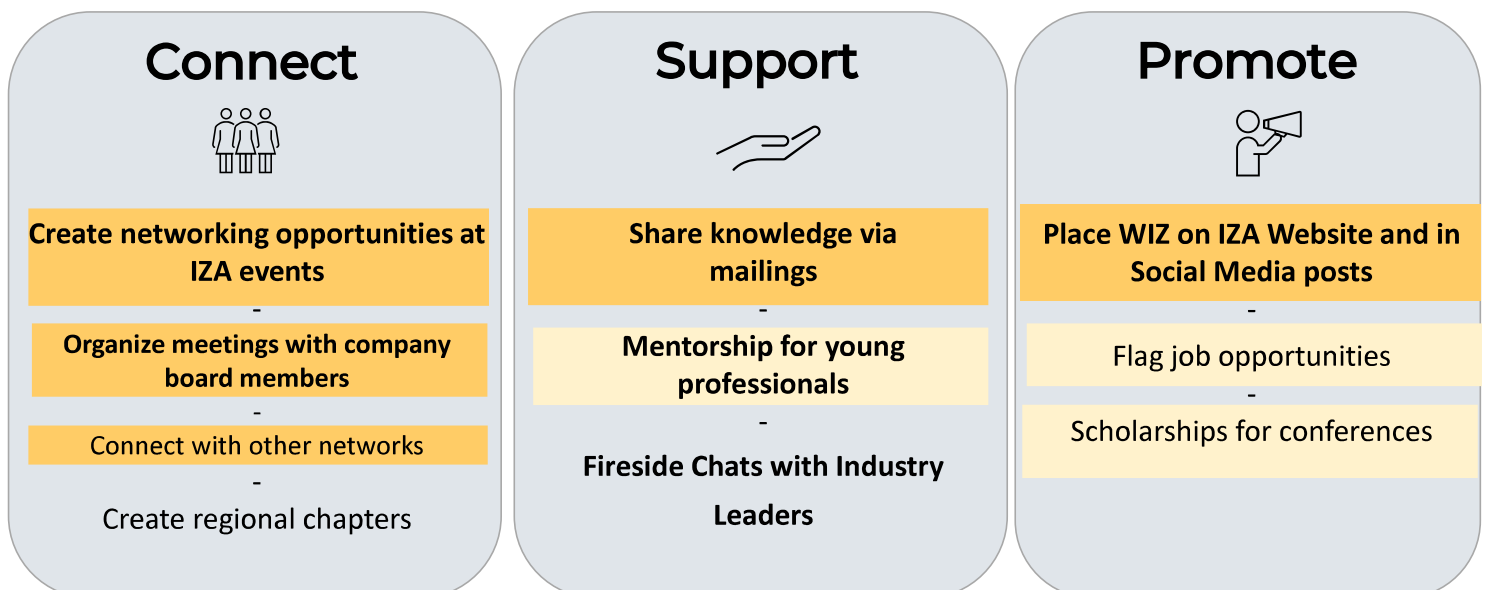


42	Regular Members
135	Affiliate Members
70	Associate Members

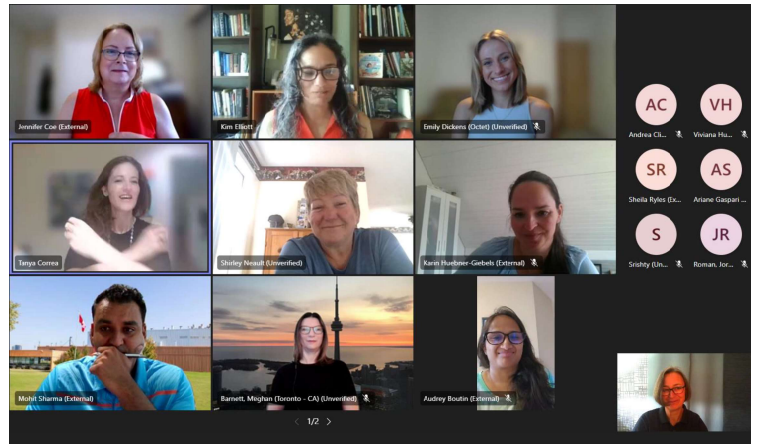
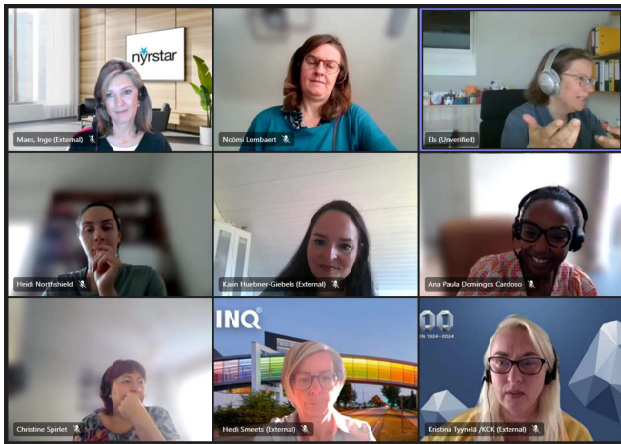
# IZA's Core Program Areas



## Women in Zinc

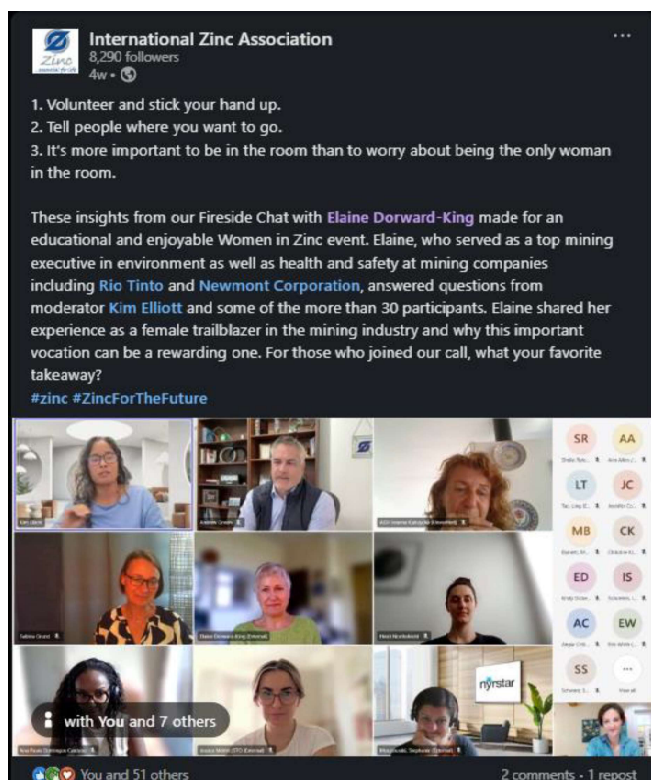


# Virtual WIZ Coffee Chats



- Participants (both calls): 30
- IZA member company reps: 14
- Non IZA member companies: 5
- Partner organizations: 2

- Double participation (in both calls): 2
- IZA staff: 8
- Male participants: 1



## Fireside Chat with Elaine Dorward-King

- 33 Participants from Europe and North America, known and unknown

# Zinc in Energy Transition by 2030

(McKinsey, CRU, Wood Mackenzie)

Batteries

Wind

Solar

Total

45 kt

50 kt

583 kt

678 kt



Zinc in solar is forecast to grow **43%** over five years.



Zinc in wind is forecast to **double** over five years.



Zinc in energy storage is forecast to **grow sevenfold** over five years.

## Zinc Battery Initiative



Joplin, MO



Turtle Creek, PA



IMPRINT  
ENERGY

Alameda, CA

ENZINC+

Richmond, CA



Tempe, AZ



ZincFive

Tualatin, OR



Pearl River, NY



redflow

San Francisco, CA  
Brisbane, AUS



Somerset, NJ



San Leandro, CA



Hershey, PA

SALIENT  
ENERGY

Dartmouth, NS, CAN  
Oakland, CA



Toronto, CAN

enerpoly

Stockholm,  
Sweden



Vancouver, BC, CAN  
Ulster, NY



Rottenburg,  
Germany



Bruxelles,  
Belgium

Suppliers



Houston, TX



Germany  
Woburn, MA



Bruggemann

Germany  
Newtown Square, PA



Dickson, TN



Taiwan



Tokyo, Japan



IMR GROUP

Velden, Austria



Octet  
Scientific

Cleveland,  
OH

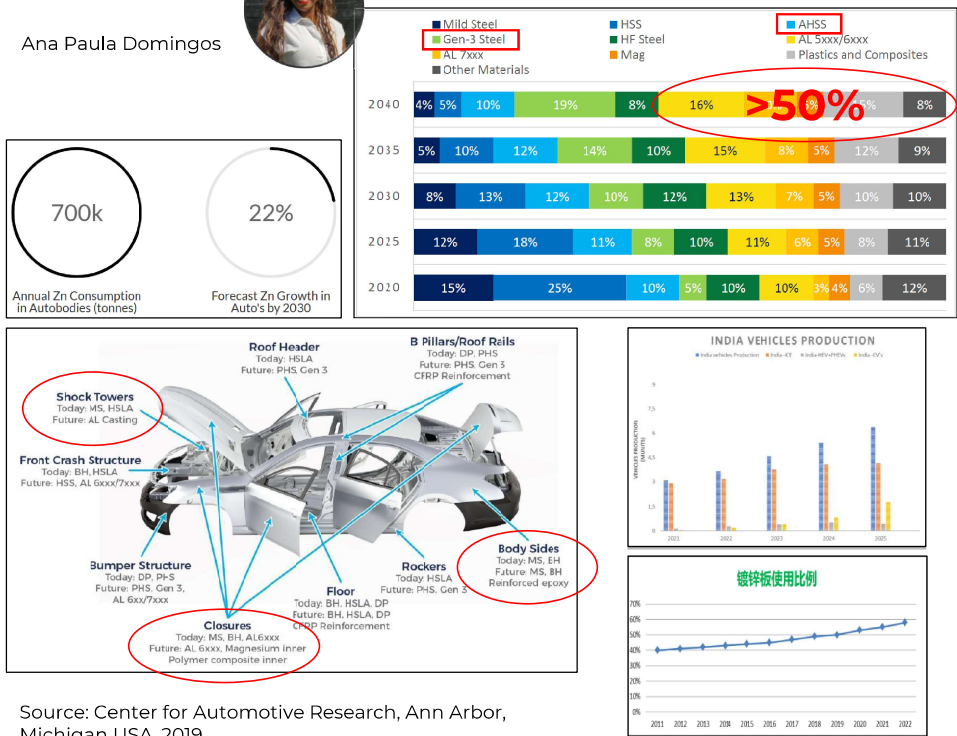


Automotive Steel

Ana Paula Domingos

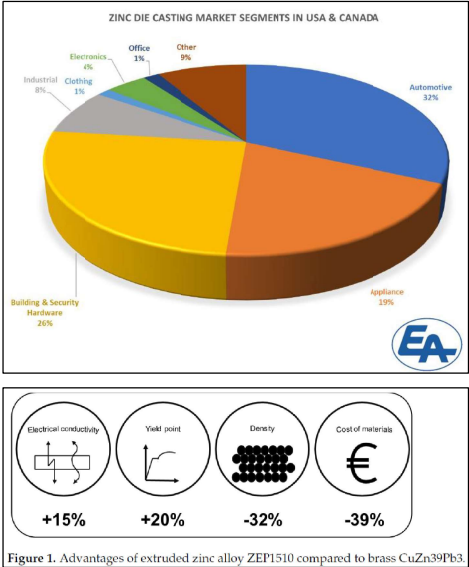


Market Assessments

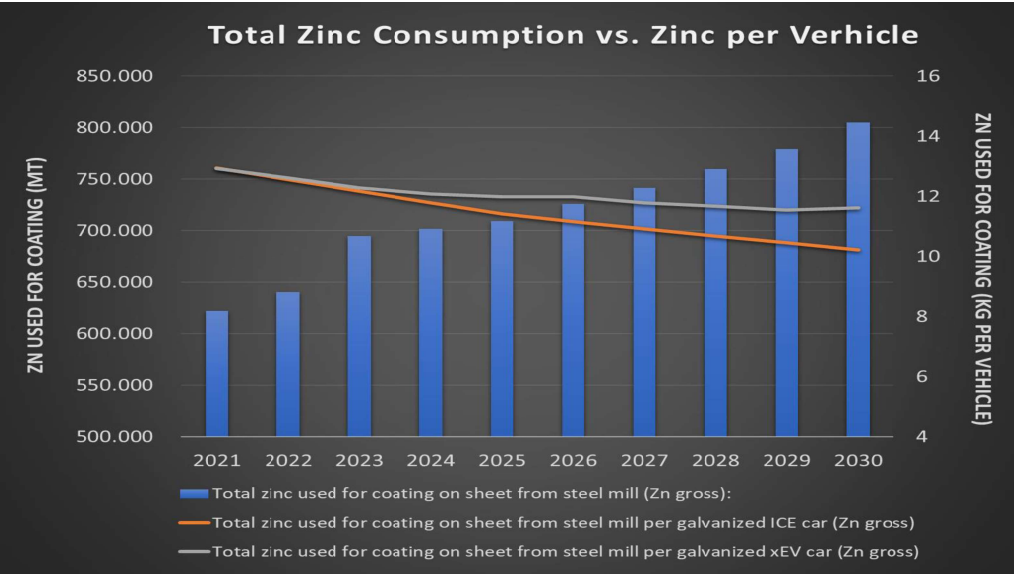


Zinc Die Casting

Didier Rollez



Automotive Zinc Consumption Outlook





## ZINC ENABLES DECARBONIZATION

Program with Benjamin Cox - Univ. British Columbia



### Key Objectives

- Quantify & monetize value of zinc in reducing carbon emissions:
  - housing/roofing
  - infrastructure
  - automotive



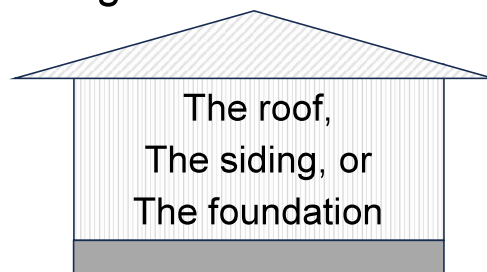
## ZED Comes First in Decarbonization!



## ZINC ENABLES DECARBONIZATION



### Housing fails for three reasons



Zinc solves  
70% of the  
problem!

**Value In Use\*** of galvanized products average  
600 tCO<sub>2</sub>e saved / t Zn used

\*(safety, climate reductions, and direct costs)

# Zinc is Insurance for Uninsurable Assets!

- White Galvanized Roofing

- Total Value In Use = \$25,600/roof
- CO<sub>2</sub>e savings = 20-40 t/roof
- 10% USA market penetration = 600 Kt Zn installed!

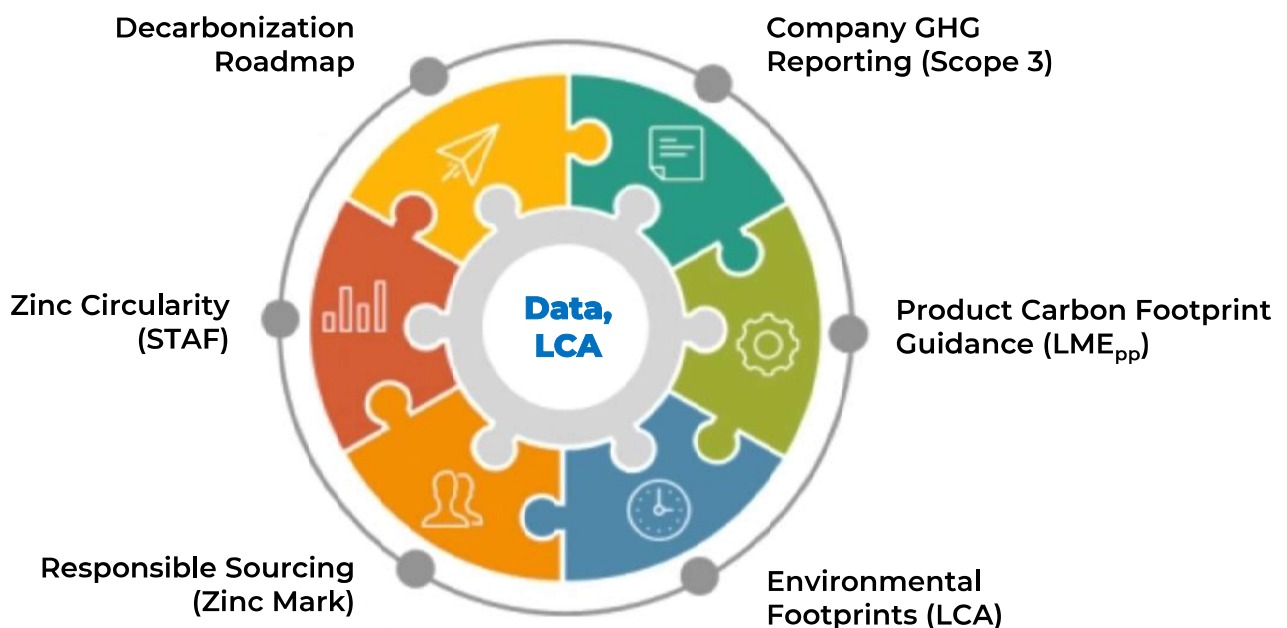


- Galvanized Rebar in Home Foundations

- CO<sub>2</sub>e savings >200 tCO<sub>2</sub>e / t Zn used
- ~\$150 of Zn provides >100-year insurance and >\$100K Value In Use
- 4.4% global rebar market for all uses = 1 Mt Zn/yr!

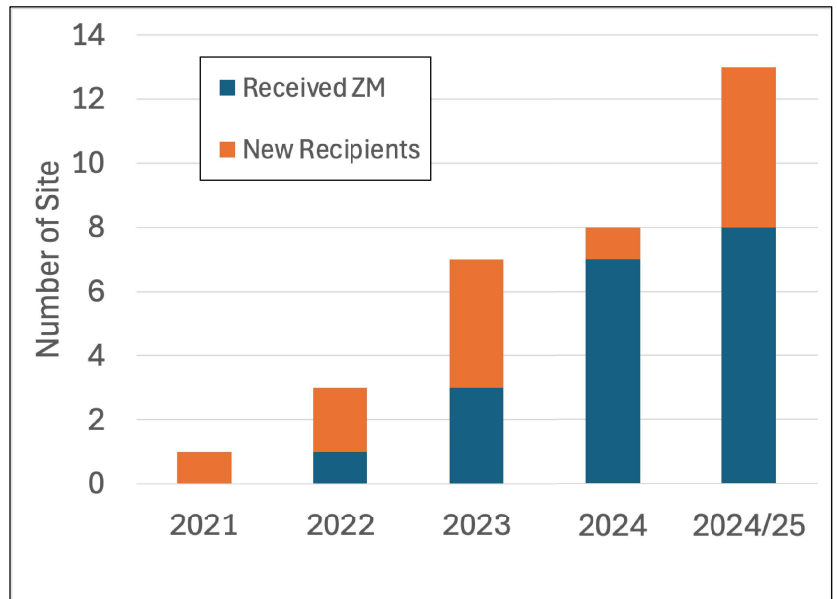
ZINC | international  
zinc association

## Zinc Sustainable Development



# Zinc Mark Progress

- Officially launched early 2023
- Mining, smelting, secondaries
- ZM and JDDS officially OECD aligned

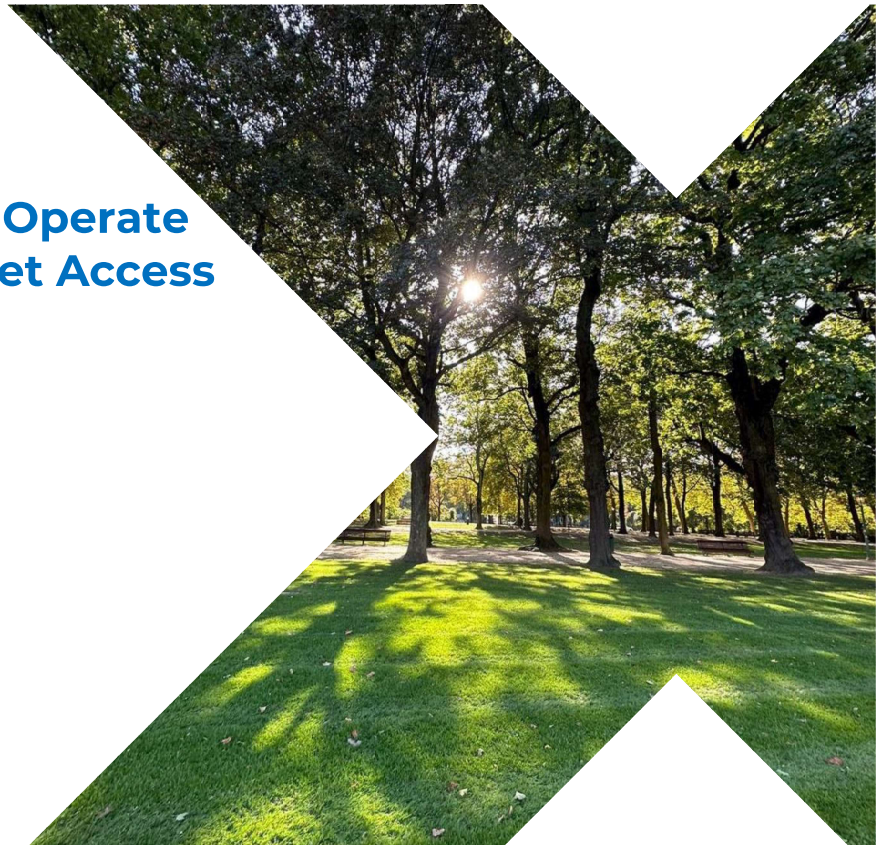
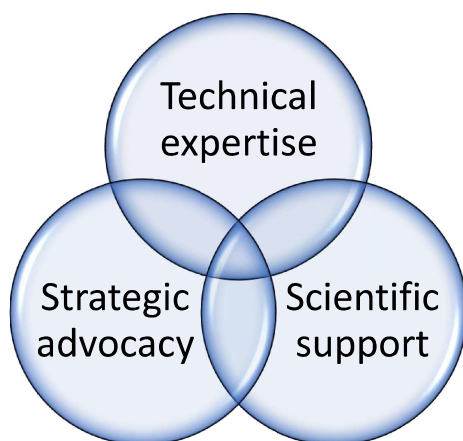


**ZINC** | international  
zinc association

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zinc association

## Regulatory

- Ensure **Global License to Operate**
- Maintain and Grow **Market Access**

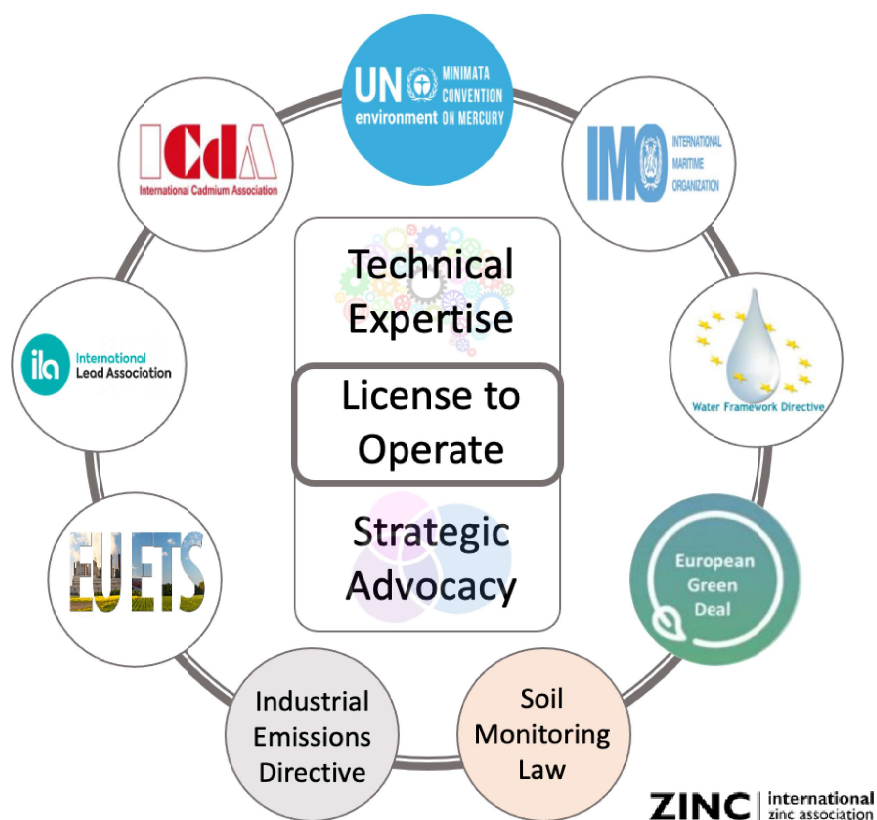




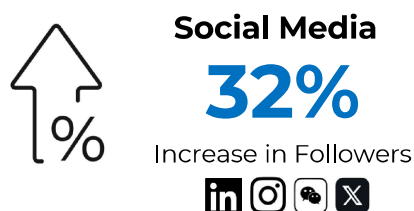
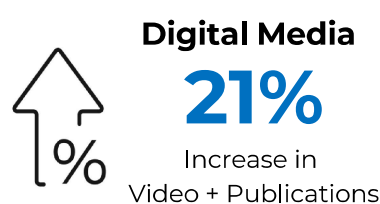
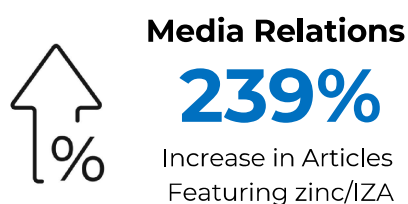


## Global and Cross-Cutting Regulatory Issues

- Mercury Waste Thresholds Accepted
- Self-Classification Tools for IMO
- EU Member State Advocacy
- Best Available Science/Technology
- Emissions Accounting
- Mitigate Financial Impacts
- Co-/By-product Management
- Green Deal Ambition



## Communication Highlights



# ZINC essential for modern life.

Architecture, energy, healthcare, infrastructure, technology, transportation, and life itself. Zinc protects what matters most.

[Contact Page](#)



# IZA 2024 Conference Locations



# IZA Full Members



# IZA Affiliate Members

ABCO DIECASTERS  
ABOUND ENERGY INC.  
A.K. STEEL, U.S.A  
ANDRIZ-SELAS  
ARCELORMITTAL  
ARTAZN  
AZA BATTERY

AZZ METAL COATINGS  
BASETRADE GLOBAL  
BATRICITY INC.  
BEIJING XINHEFENG AGRO-CHEMICAL COMPANY  
BOHIGH ZINC PRODUCT  
CARTERET DIE CASTING CORP  
CLECIM FRANCE  
COMMERCIAL METALS COMPANY-- GALVABAR  
COMMET  
CORBEC  
COREZINC S.R.O.  
COROMANDEL INTERNATIONAL  
CORPORACION ACEROS AREQUIPA  
COULOMB TECHNOLOGY  
DAYAL FERTILIZERS  
DECO PRODUCTS

DCK GROUP  
DENRO CORPORATION  
DIAMONCHEM  
DREVER INTERNATIONAL  
EASTERN ALLOYS  
EASYLZINC  
ELORO RESOURCES LTD.  
EMG-ELEXIS  
ENERPOLY AB  
ENZINC, USA  
EOS ENERGY ENTERPRISES  
E-ZINC, CANADA  
FIELDING MFG FERROFACTA GMBH  
FLAUREA CHEMICALS  
FORD MOTOR CO.  
FORM TECHNOLOGIES  
FORT RECOVERY INDUSTRIES INC  
FORTUNE ENVIRONMENTAL TECHNOLOGY  
FRECH USA  
GENERAL MOTORS  
GRACELAND INDUSTRY PTE LTD  
GREENNOVO ENVIRONMENTAL TECHNOLOGY  
HAKUSUI TECH CO, LTD,  
HENEKEN MAZAK S.R.O.,  
HILABS GMBH

HUBEI FORBON TECHNOLOGY CO  
HYUNDAI STEEL CO. (& RESEARCH)  
IMPRINT ENERGY INC.  
IMR METAL POWDER TECHNOLOGIES  
INDUSTRIAL STEEL CONSTRUCTION  
ISKY CHEMICALS CO.LTD  
IXM  
JG CHEMICALS  
JEAN GOLDSCHMIDT INTERNATIONAL  
JIANGSU HUACHANG CHEMICAL CO.  
JIANGSU YOUFA STEEL PIPE CO., LTD  
KEODS (FIVE GROUP)  
KINGENTA ECOLOGICAL ENGINEERING  
KOPF HOLDING GMBH,  
LAKESIDE CASTING  
LEE KEE GROUP LIMITED  
LIMPACT INTERNATIONAL LIMITED  
LUXI CHEMICAL GROUP CORPOR.  
MAHADHAN AGRITECH  
MARIO PILATO BLAT S.A.  
MATELLUS,  
MCC NON-FERROUS TRADING  
METALS CHEMICALS MAASTRICHT  
MINECO LIMITED  
MINIATURE CASTING

# IZA Affiliate Members

MITTAL STEEL U.S.A. – INDIANA HARBOR

NANDAN NANFANG NONFERROUS METAL COMPANY

NIPPON SHOKUBAI CO.,LTD.,

NUCOR STEE

NV BEKAERT SA

OCEAN PARTNERS INC.

OCTET SCIENTIFIC

POSCO

PRINTED ENERGY

PRODUCTION CASTINGS INC.,

PUNIA GROUP OF INDUSTRIES

PURITY ZINC METALS

NEW FERTILIZER TECHNOLOGIES

RALLIS INDIA LIMITED

RAMCIDES CROPSCIENCE PVT LT

REAZN

REDFLOW LIMITED

RICKER METALS, INC.

RIO TINTO MINERALS

RM PHOSPHATES & CHEMICALS

RUMBLE RESOURCES LIMITED

SALIENT ENERGY

SALZGITTER MANNESMANN FORSCHUNG

S.B.E. Metals DBA / S.B. Enterprises

SERV-ALL

SHENZHEN BATIAN ECOTYPIC ENGINEERING

SHENZHEN ZHONGJIN LINGNAN NONFEMET CO.

SHUIJIAZHANG LONGLI CHEMICAL

SINOFERT/SINOCHEM HOLDINGS LIMITED

SOLDY MANUFACTURING

SMM INFORMATION & TECHNOLOGY

SSAB TUNNPLAT

STANLEY FERTILIZERS

STEEL DYNAMICS

STEELSCAPE INC/BLUE SCOPE

SULPHUR MILLS LIMITED

TANGSTEEL

TATA STEEL LIMITED

TERNIUM

TERMOMECHANICA SAO PAULO SA

THE COATINC COMPANY HOLDING

THE PLATT BROTHERS & CO

THE TECHS

THYSENKRUPP STAHL

TIBET SUMMIT RESOURCES CO. LTD

TITAN COMPANY

TRANSAMINE TRADING S.A.

TRANSVAAL GALVANIZERS

TRILAND METALS LIMITED

UNITED STATES STEEL CORP.

URBAN ELECTRIC POWER

USS POSCO INDUSTRIES

VALMONT COATINGS

VERTIG ZINC WIRE OY

VOEST-ALPINE STAHL

VOLCAN METAL & MINING CO.

WIEGEL VERWALTUNG GMBH

WN ASSOCIATE COMPANY LIMITED

YARA FERTILIZERS

YUNNAN CHIHONG ZN & GE

YUNNAN XIANGYUN FEILONG RECYCLING TECHNOLOGY CO.

ZAF ENERGY SYSTEM/ BATTERY GRADE MATERIALS

ZELOS ENERGY LTD

ZHAOQING HONGYANG STEEL STRUCTURE HDG

ZHONGSHAN HIZINCO MATERIAL SCIENCE&TECHNOLOGY

ZHUZHOU SMELTER

ZINC FIVE

ZINCO GROUP

ZINGAMETALL

ZINPRO CORPORATION

ZINQ TECHNOLOGIE GMBH