

# Indian Foundry Industry

VIKAS GARG

President Designate



**The Institute Of Indian Foundrymen**

[vp@indianfoundry.org](mailto:vp@indianfoundry.org)

**&**

**Managing Director - Forace Polymers**

[vgarg@foracepolymers.in](mailto:vgarg@foracepolymers.in)



# IIF & Centers of Excellence (CoE )

- ❑ Head Office at Kolkata ( West Bengal)
- ❑ +3000 Members
- ❑ 4 Regional Offices , 27 Chapters & 3 CoE
- ❑ Centre Of Education & Training  
(Short term training programs, modular courses & exams )
- ❑ Foundry Informatics Centre ,Delhi  
(Maintain & update stats, database & co ordinate with various Govt. & other agencies)
- ❑ National Centre of Technical Services Pune  
(Provide Technical solutions & publications)



# Objectives of IIF

## Promote Industry Competitiveness:

- Dissemination of Latest Technologies
- Promote Efficient Energy Management
- Training, Education & Skill Development
- Promote Business Development
- Organize Conferences, Exhibitions
- Technical Publications
- Maintain & Update Database
- Policy Advocacy



# Major Foundry Clusters



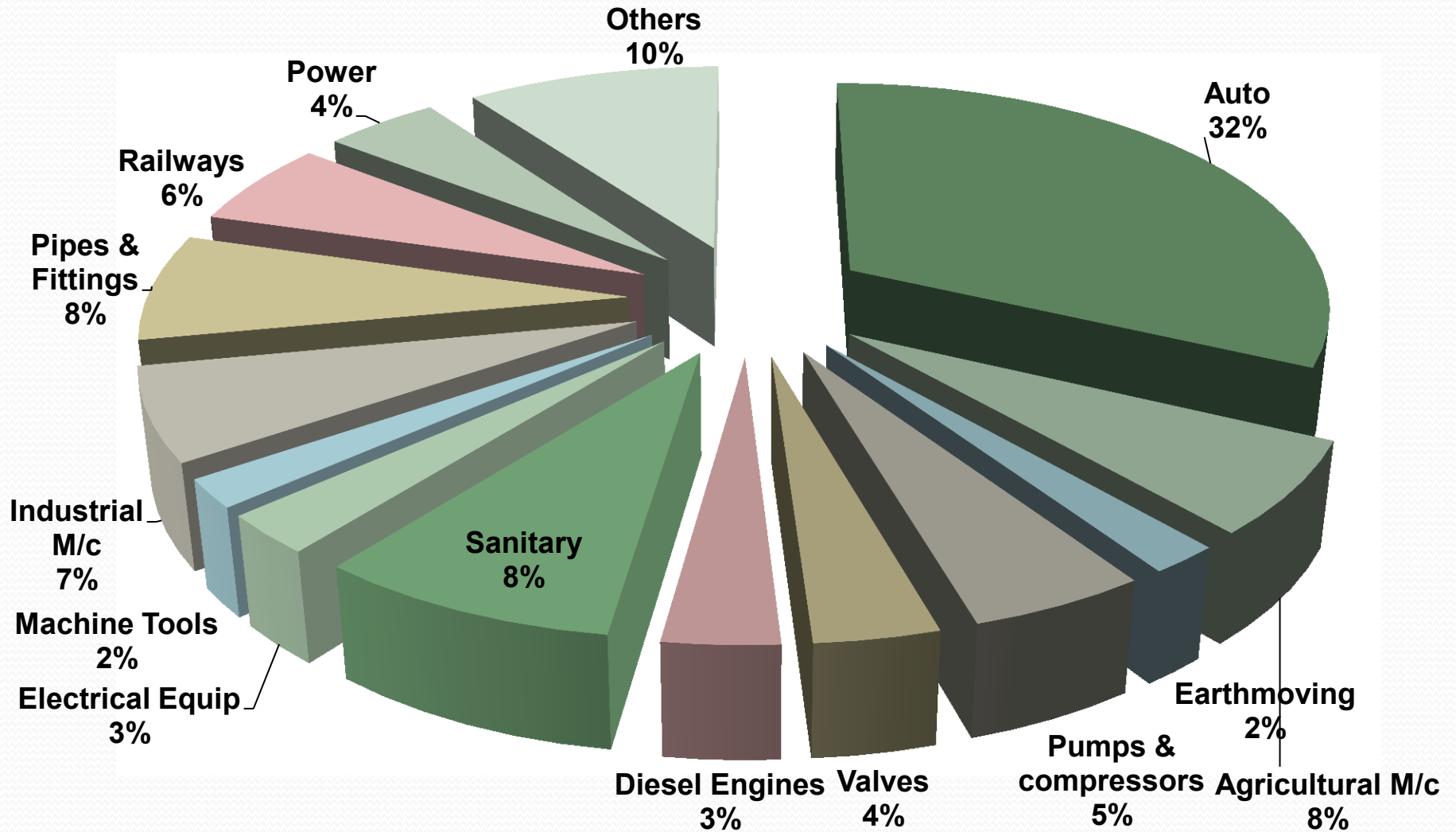


# Indian Foundry Industry at a Glance

Approx. Units	4600
Production	9.5 Million MT PA
Employment	500,000 Directly
	150,0000 indirect
Major Clusters	19
Productivity Per unit	1950 MT/PA
Avg. Productivity/ Man/ PA	20
Max. Productivity/ Man/ PA	90

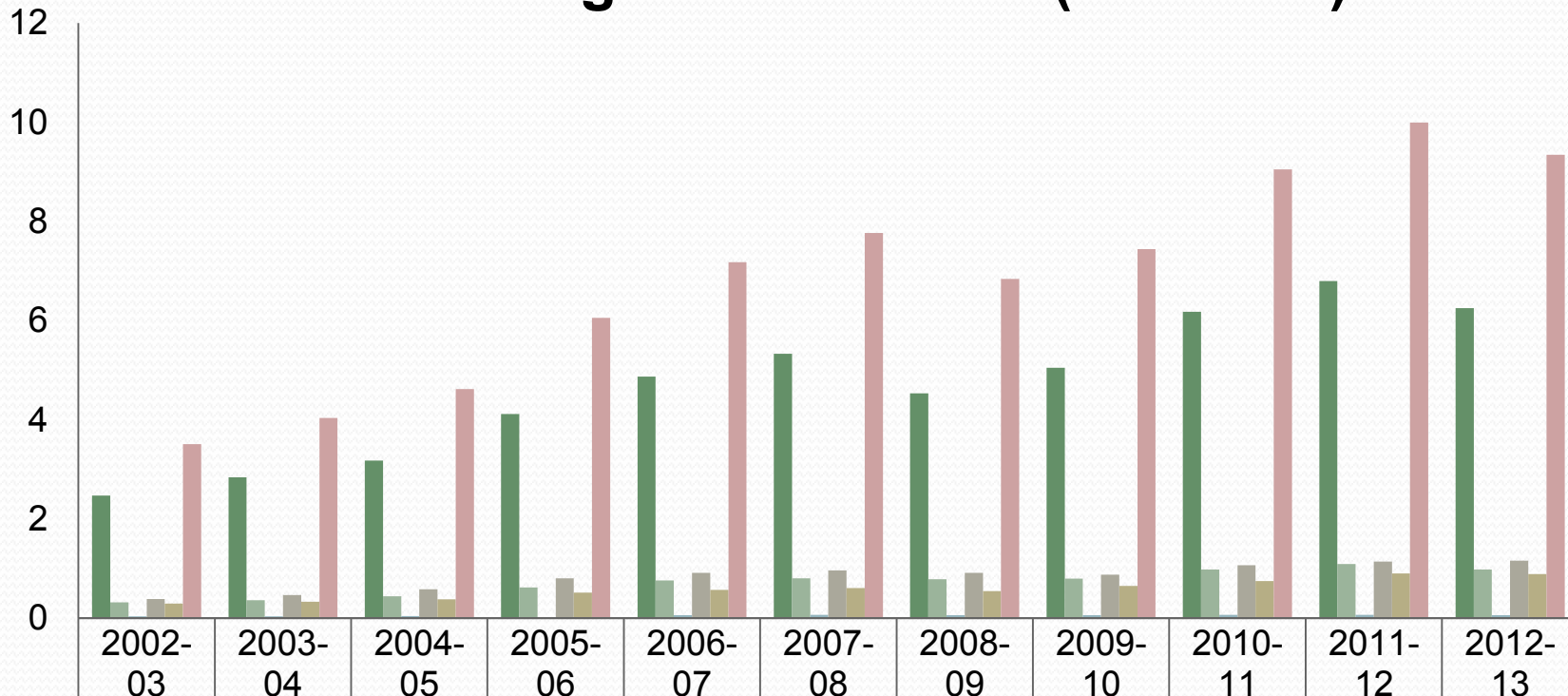


# Sector wise Consumption of Castings





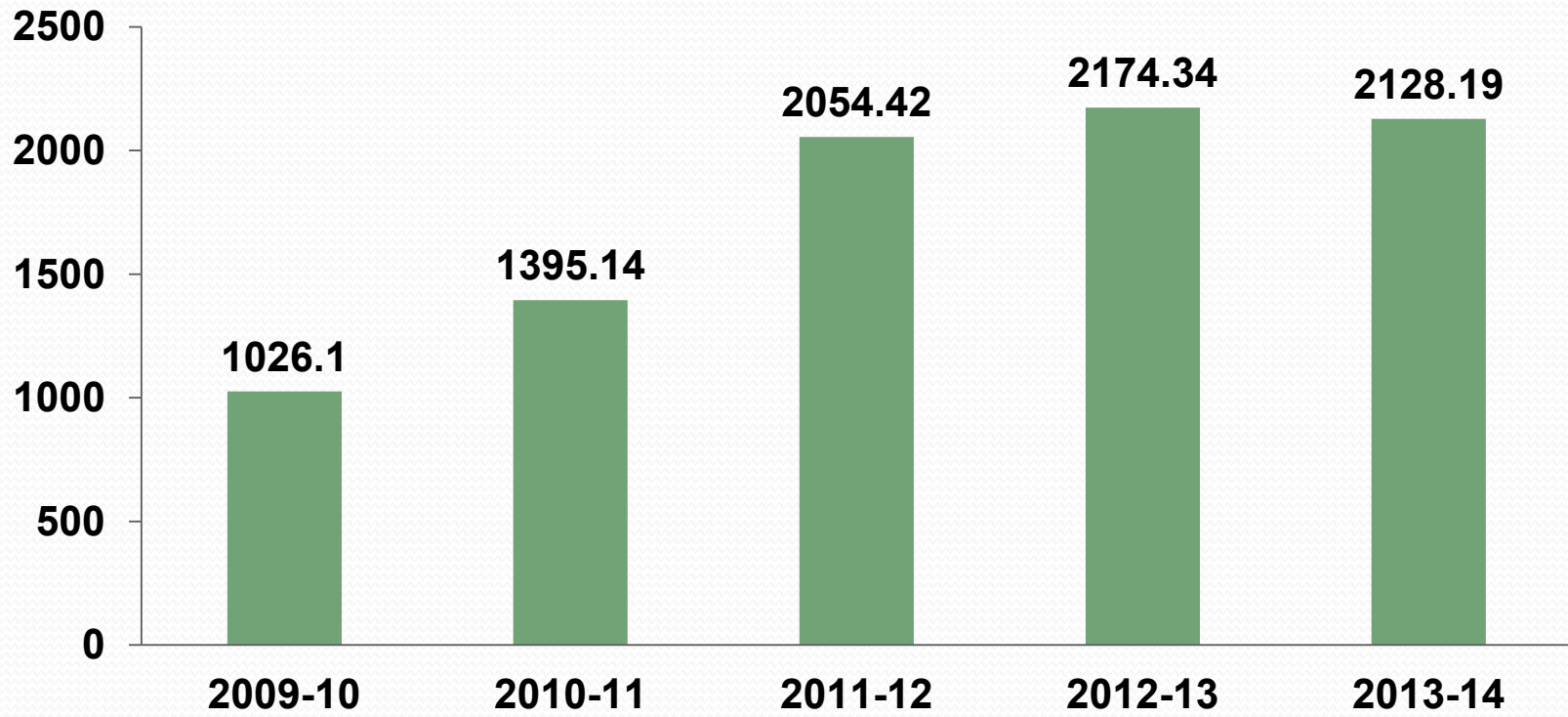
# Production of Castings in Million MT ( 2012-13 )-INDIA



■ Grey C.I.	2.47	2.84	3.18	4.116	4.87	5.332	4.532	5.05	6.18	6.798	6.254
■ SG Iron	0.316	0.363	0.442	0.618	0.762	0.802	0.785	0.8	0.984	1.09	0.981
■ Malleable	0.039	0.039	0.04	0	0.0623	0.0651	0.0605	0.0602	0.0692	0.066	0.0604
■ Steel	0.388	0.465	0.581	0.805	0.914	0.964	0.916	0.88	1.07	1.14	1.158
■ non ferrous	0.296	0.331	0.38	0.516	0.571	0.608	0.547	0.653	0.75	0.9	0.891
■ TOTAL	3.509	4.038	4.623	6.055	7.1793	7.7711	6.8405	7.4432	9.0532	9.994	9.3444



## Exports of castings in USD Mn.

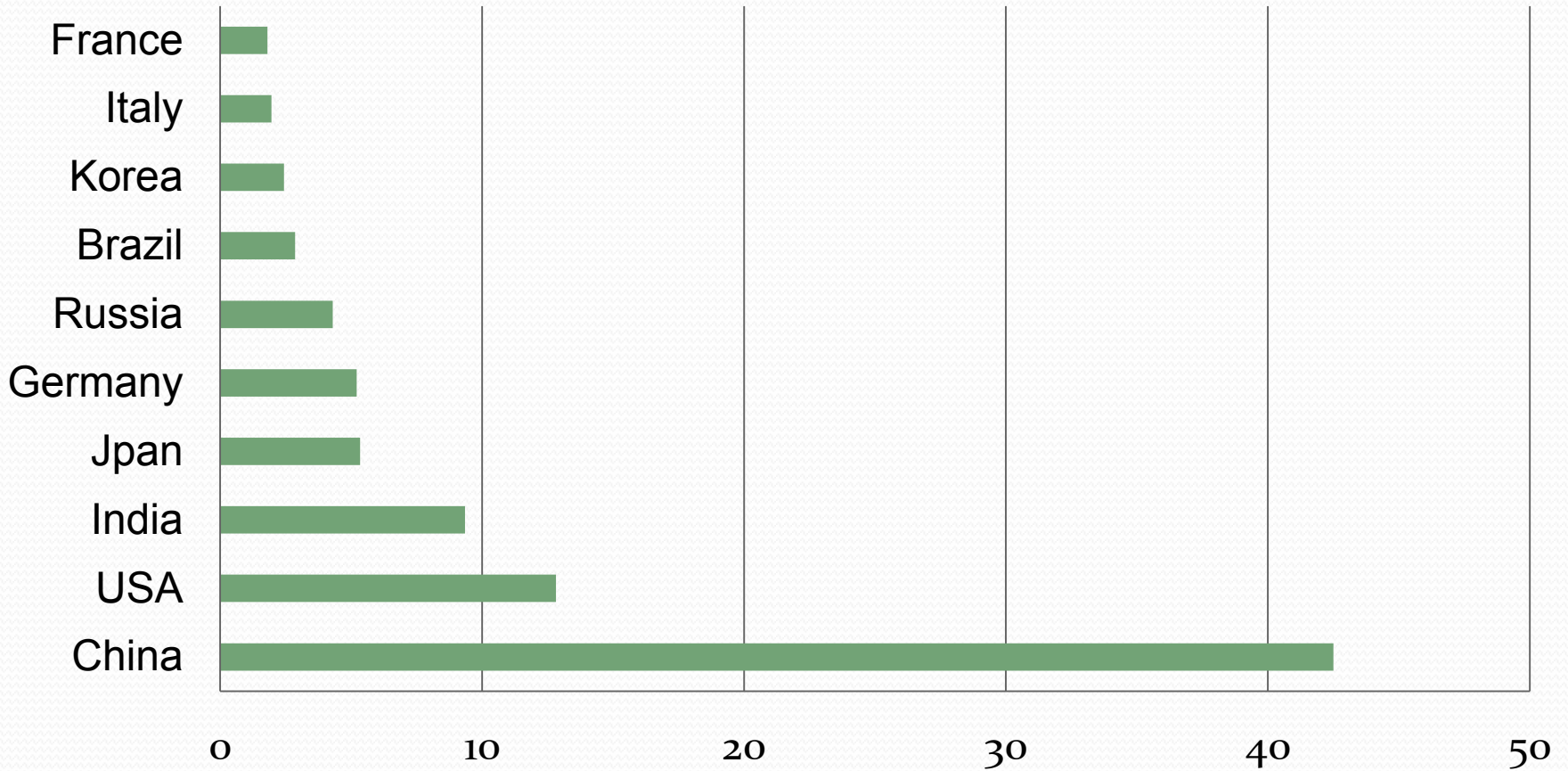






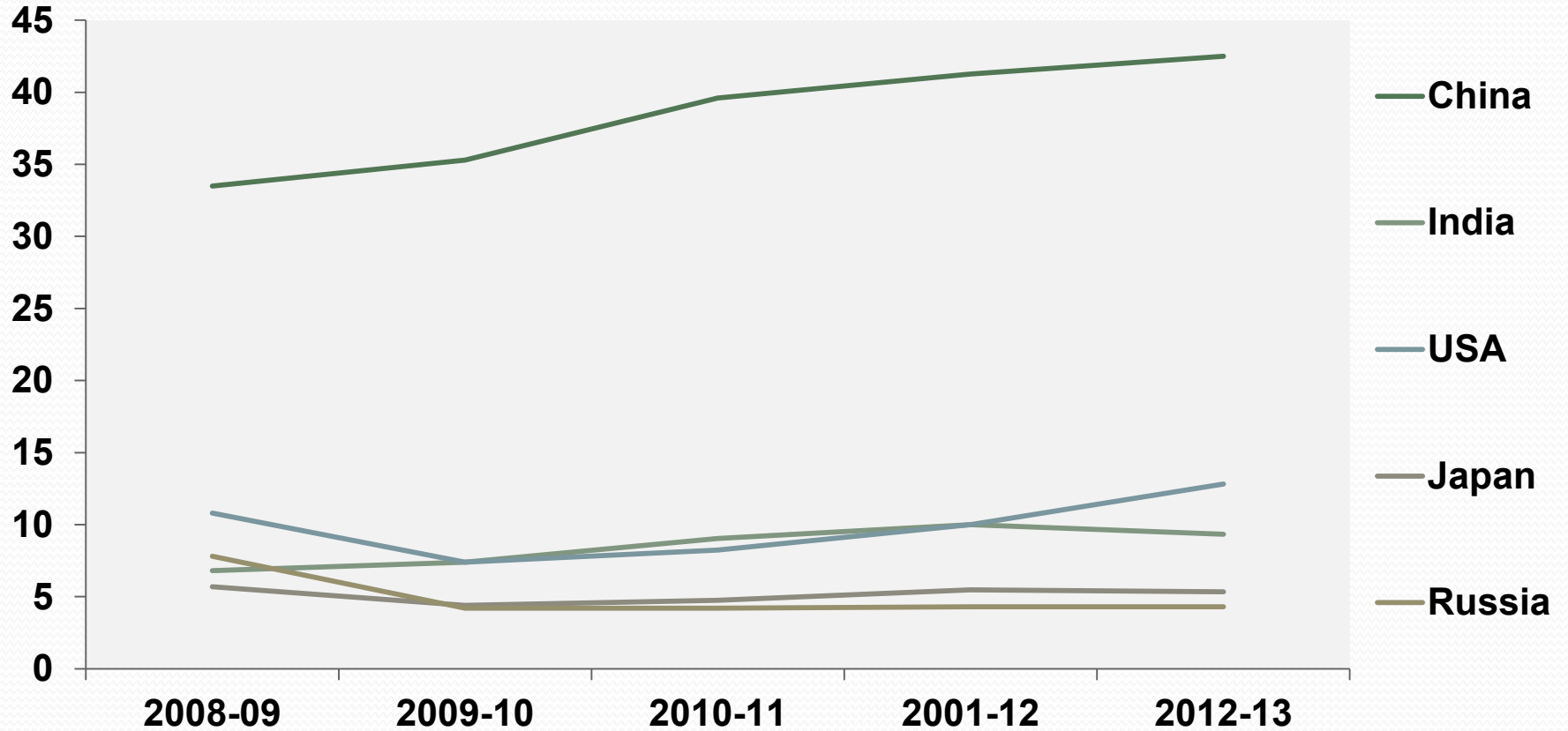
# Country wise Casting Production - Census 2012-13

Source : Modern Casting, USA





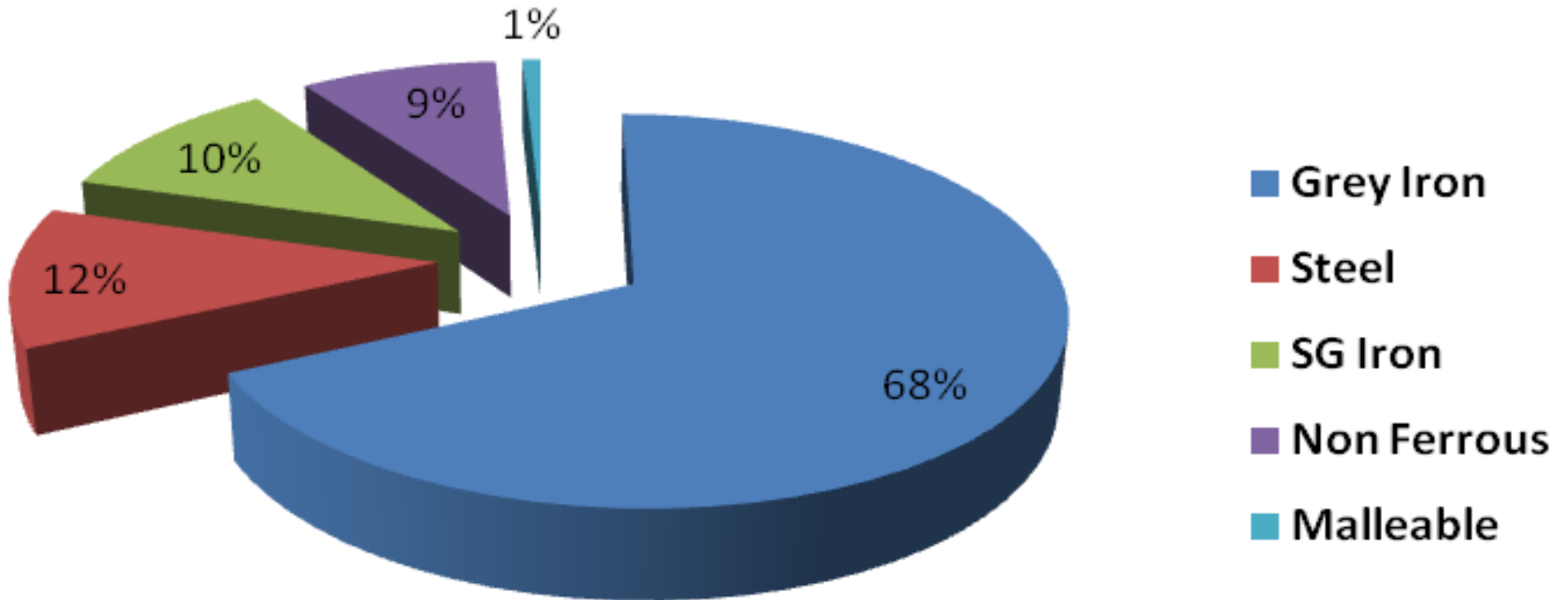
## Production Trends of Castings (Top 1-5) Figs in Million Tons





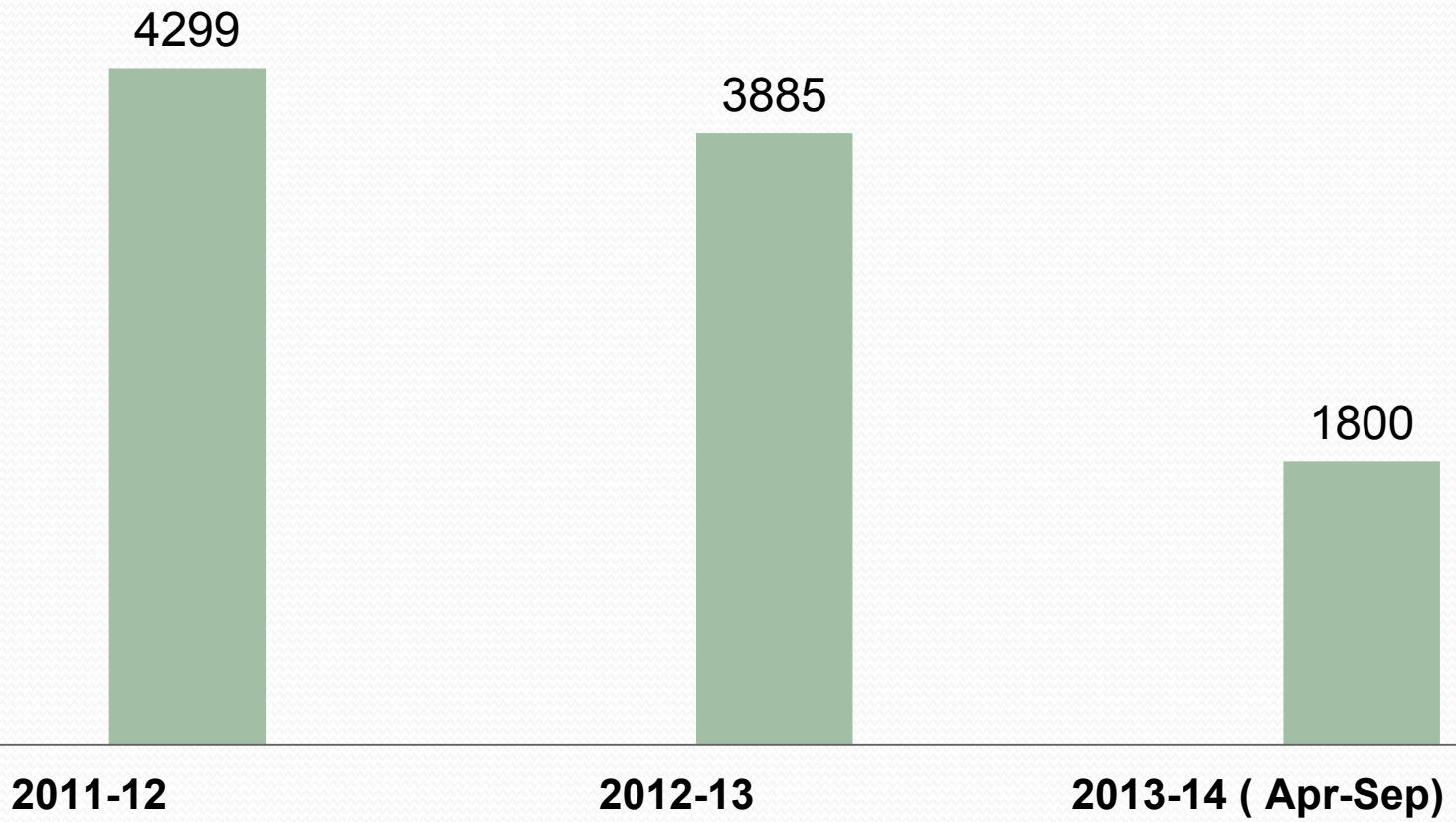
# Product Mix

## Product Mix of cast Metal-India



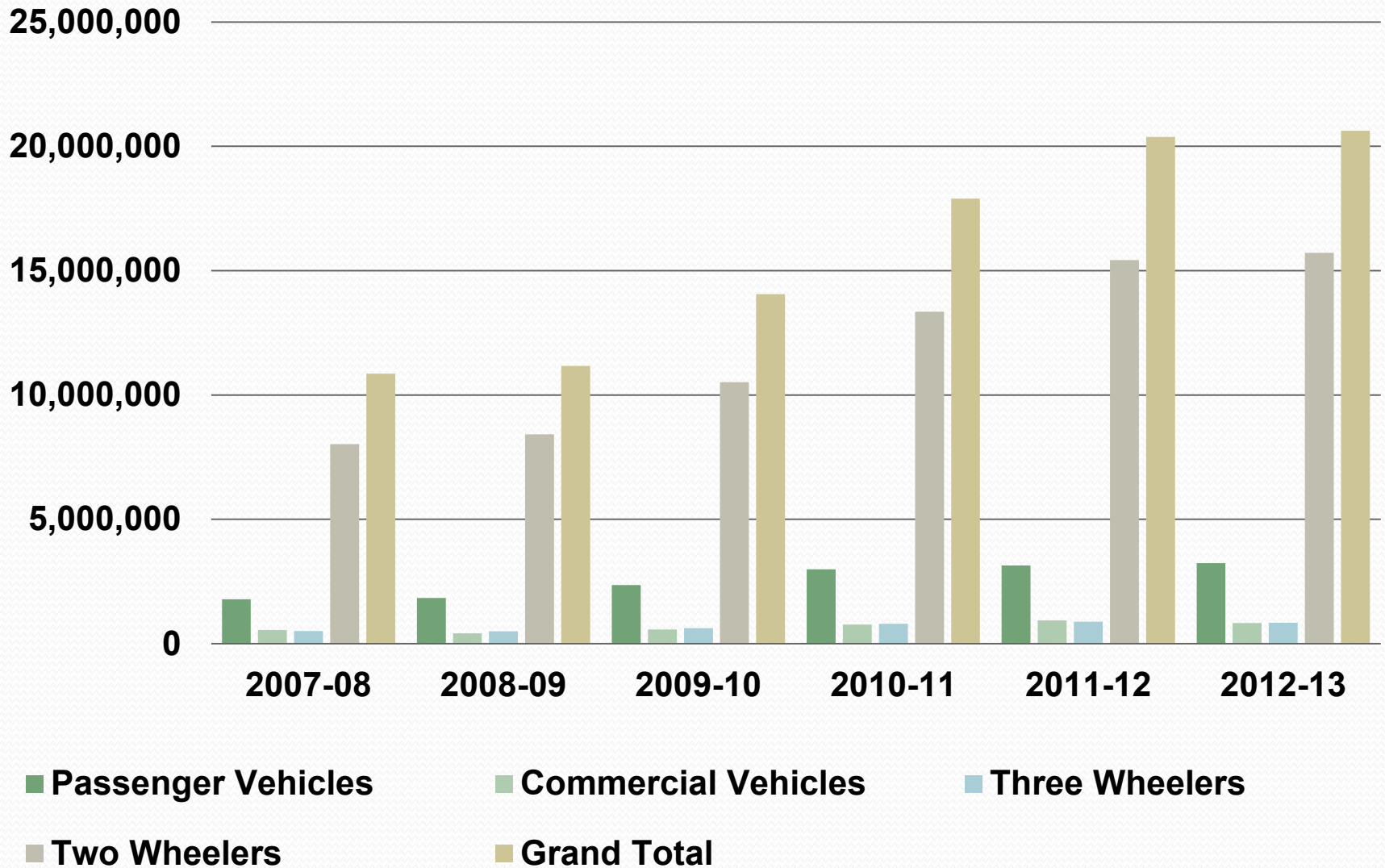


# Machine Tools



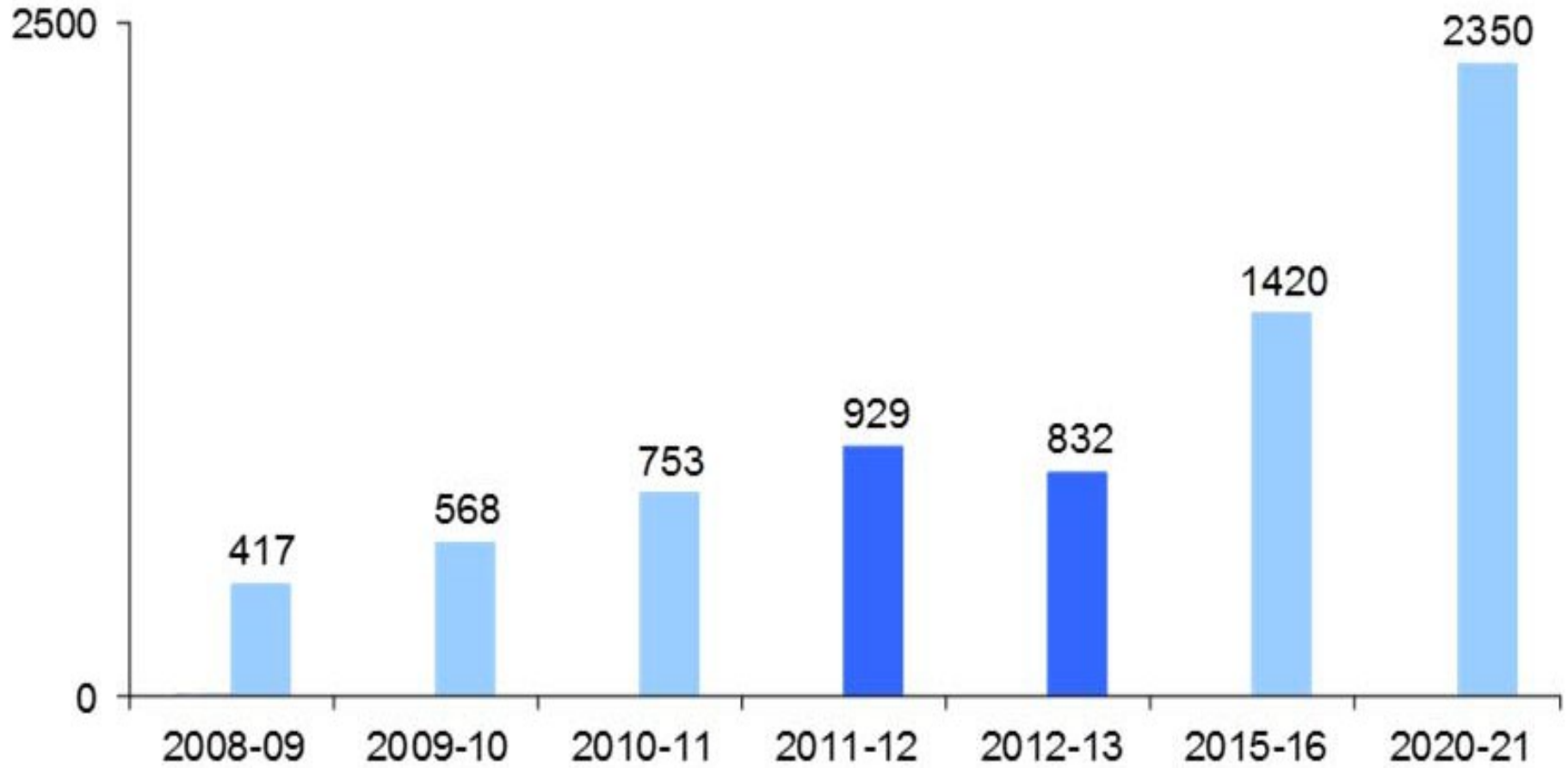


# Trends in Auto Sector



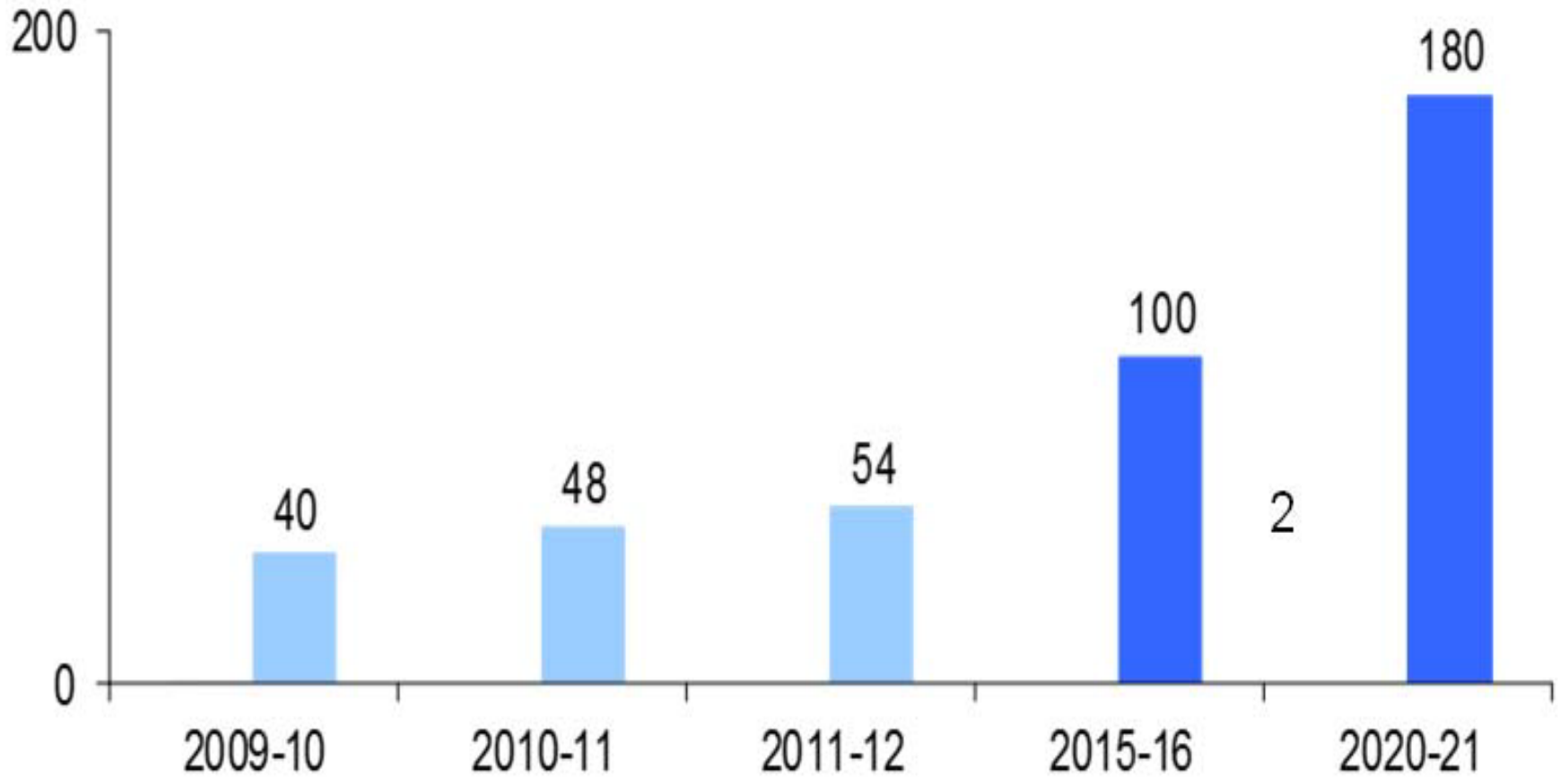


# Forecast - Commercial Vehicles (000)



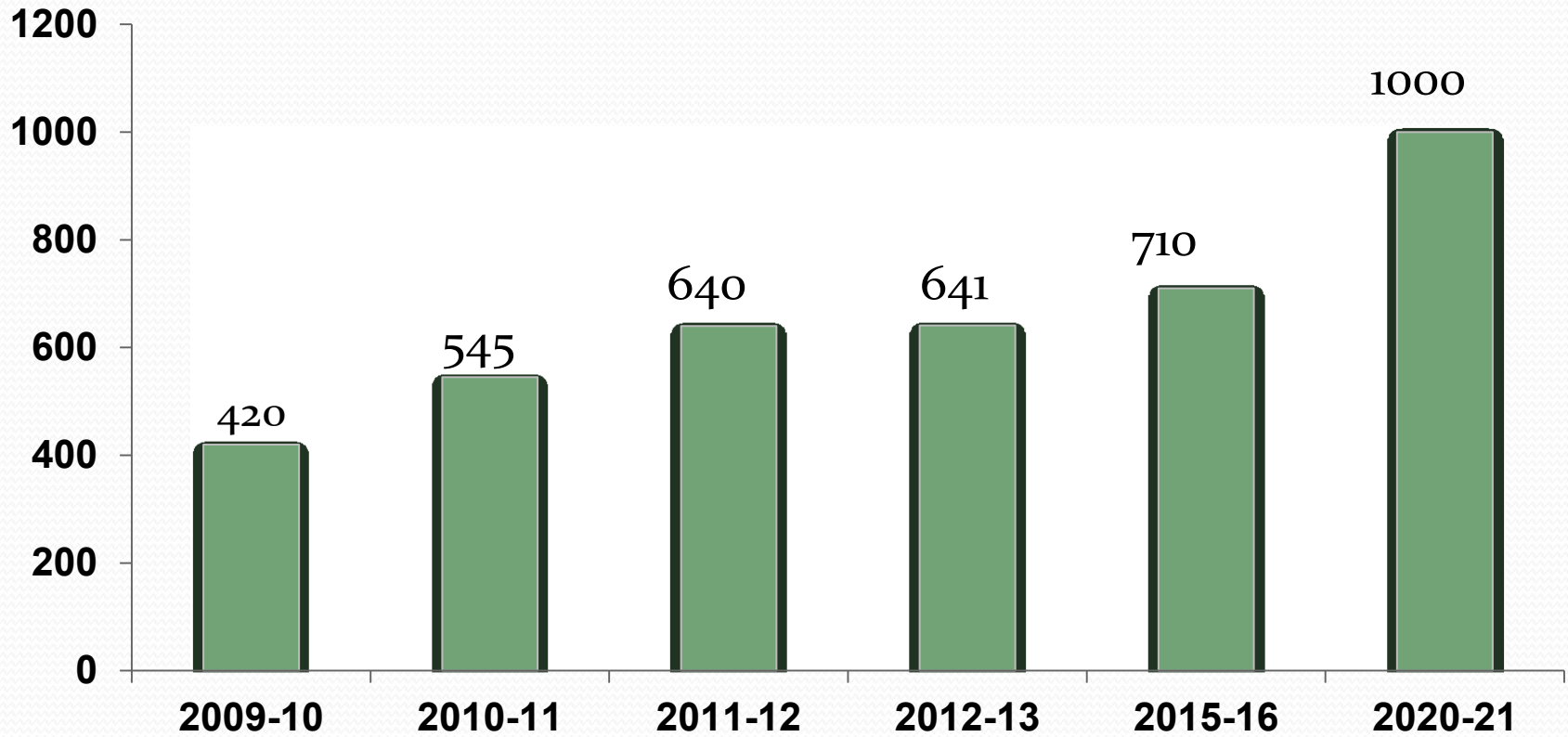


# Forecast-Construction Vehicles (000)





# Forecasts-Tractors (000)







## New Plans / Recent Investments INR in Mn

Maruti Suzuki	180000 (in 3 phases in)
Ashok Leyland	10000
Nissan Jt Venturewith AL	23000
Asia Motor Works	5000
Hyundai	4000
Daimler Trucks	44000
Eicher Volvo	5000
Force Motors	8000
Mahindra	13500
Tata Motors	120000
Volvo Buses	5000



# New Foundry Expansions

- Steel Cast
- Indian Smelting
- Kastrel
- PSG Coimbatore
- Bagree Alloys
- Tata Motors
- Hinduja
- Amtek
- DGP Hinoday (M&M)
- Srinivas engg
- Oliver Rajpura
- Menon & Menon
- KFIL Hospet
- Jindal Fitting
- DCM Engg
- Sharp Chucks
- RPS Vikas
- Bhagwati Foundries
- Flowmetallic
- Nelcast
- Brakes India
- Larson & Tubro
- Ace Designers
- Ghatge Patil Industries
- Amtek Group
- OCL Palwal
- Stride Palwal
- Electrosteel Bokaro



# Major Foundry Clusters

Following major foundry Clusters are formed under IIUS

(Industrial Infrastructure up-gradation scheme of Ministry of Commerce & Industry)

- Belgaum
- Coimbatore
- Kolhapur
- Howrah



# Common Facilities in clusters

- Foundry Simulation software
- Promote Green & Clean Environment
- Improvement in Basic infrastructure
- Common interactive portal for members
- ERP software package for members
- Common Training facilities
- Common Testing labs
- Vendor/supplier development programme
- Collective procurement where possible



# Common Facilities in clusters

- Modern Convention Hall
- Optical Emission Spectrometer
- 3D CMM Machine
- Sand Reclamation
- 3D Modeling & ERP/ CAD CAM solutions
- Modern Tool room
- Rapid Product Development



# Benefits

- Access to common Modern Design, Production & Testing facilities
- Improved productivity
- Improved skills
- Better infrastructure
- Collective bargaining for procurement & other services
- Greener environment
- Improved profitability & overall improved competitiveness



# New Initiatives

- Lean Manufacturing Program undertaken with National Productivity Council
- UNIDO- GEF Program for Energy Efficiency
- UNIDO ICAMT Project for improved productivity in cluster

**UNIDO** United Nations Industrial Development organization

**GEF** Global Environment Facility

**ICAMT** International Centre for the Advancement of Manufacturing Technology



# IIF Initiatives

- IIF is promoting the energy conservation in foundries by conducting awareness program/ detailed energy audits supported under UNDP/ GEF SGP
- Signed MoU with Central Board of Secondary Education for introducing foundry Technology in schools as an optional vocational subject

**UNDP**    **United Nation Development Program**

**GEF**     **Global Environment Facility**

**SGP**     **Small Grants Program**





# Future Plans

- To Promote Health & Safety in foundries. Initiated dialogue with National Safety Council
- To Promote recycling of foundry sand in clusters & to take up with Govt. to support this to protect environment & conservation of natural resources
- To promote collaborative approach in clusters for improved competitiveness



# Conclusion Contd....

- The business sentiment has considerably improved in the last 3 months
- The new Govt. has a strong mandate for economic development
- Increased focus of Govt. on investments by allowing higher FDI limits & incentives for investments in plant & machinery for manufacturing for limited period
- Increased focus on manufacturing, skilling
- Fast tracking of projects & removal of procedural bottlenecks & emphasis on e governance
- Promoting “Make in India” by facilitating ease of doing business
- Foundry sector likely to grow by 10-12% in 2014-15

# Conclusion

**India Foundries are increasingly focusing on :-**

- Lean Manufacturing for improved productivity
- Value addition & cost competitiveness
- Energy efficiency & conservation of natural resources
- Indian foundries are capable of producing value added engineered castings (From a few grams to over 100 Tons/ piece) for various applications conforming to international standards at internationally competitive prices



# Welcome to 63<sup>rd</sup> Indian Foundry Congress and International Foundry Exhibition IFEX 2015

**Dates :** Feb 27-March 1'2015

**Venue:** World class India Expo Center  
Greater Noida , Delhi NCR , India

## **Highlights:**

Technical sessions with focus on practices

International Foundry Exhibition Spread over 10000 Sq M. Over200

Exhibitors from India & Overseas & Cast India Expo

Cast Source Meet ( Interaction between Buyers/Sellers of Castings)

Post Congress works visits

Post Congress visits to places of Tourist attractions

Attractive evening cultural programmes

Attractive Programmes for Accompanying spouses

For More Details ,Please visit :[www.ifcinfia.net](http://www.ifcinfia.net)

# Thank You

