



## VISION

To increase the global competitiveness of South African industry through the provision of appropriate services in order to reduce import leakage, increase local production, and increase investment in the sector.

## MISSION

The NFTN will provide program management, coordination, and facilitation to support and enable the revitalisation of the foundries in the metal casting industry through appropriate skills training, technology transfer, and diffusion of state of the art technologies.

Proud initiative of the dti



Hosted by the CSIR



## KEY NFTN COLLABORATORS

The NFTN has collaborative relationships with partners from both the public and private sectors, including government agencies, supplier companies, non-profit professional societies and academia.



### ASSOCIATIONS

- Aluminium Federation of South Africa (AFSA)
- International Zinc Association Southern Africa (IZASA)
- South African Institute of Foundrymen (SAIF)



### TECHNOLOGY STATIONS

- University of Johannesburg Metal Casting Technology Station (UJMCTS)
- Vaal University of Technology (VUT)



### SCIENCE COUNCILS

- Council for Scientific and Industrial Research (CSIR)
- Mintek



### IMPLEMENTATION AGENCIES

- National Cleaner Production Centre (NCPC)
- Technology Localisation Implementation Unit (TLIU)



### GOVERNMENT DEPARTMENT

- Department of Trade and Industry (dti)



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## INTRODUCTION

The National Foundry Technology Network (NFTN) has a mandate to improve the competitiveness of the South African foundry industry, especially distressed foundries.

The NFTN manages, coordinates and facilitates transformation and development of the casting industry sub-segment, particularly in the product supply-chains and at a manufacturing level, through focused interventions, designed to enable South African foundries to become globally competitive. Skills and supplier development are key areas of focus.

The NFTN was established in 2008 at the height of the global recession. It is funded by the Department of Trade and Industry (**the dti**), and hosted by the Council for Scientific and Industrial Research (CSIR)



## WHAT WE DO

The scope of the NFTN is guided by the requirement of, and relevant to, the local cast metal industry. The key areas identified for support include:



**CAPACITY BUILDING:** such as reduction of scrap, energy efficiency, improve man-hours per ton, quality improvement and increased productivity initiatives.



**HUMAN CAPITAL DEVELOPMENT:** such as skills training to employees, in-house training, artisan training and placement of interns.



**ENVIRONMENTAL COMPLIANCE:** assistance with environmental requirements in terms of foundry spent sand and air emissions; assistance on improving housekeeping and energy efficiency support.



**EXPANSION OF FOUNDRY INDUSTRY:** this is to assist the foundry industry to attract inward investment and yield a reasonable return on investments as well as responding to identified local and international markets.



**SCIENCE, TECHNOLOGY TRANSFER AND INNOVATION:** assisting foundries to upgrade and modernise through relevant science, technology and innovative solutions.



**COOPERATION FOR INDUSTRY COMPETITIVENESS:** facilitating cooperation between public and private stakeholders to address system level issues in order to improve the overall performance of the foundry industry.

## DESIRED OUTCOME

- Growth in core manufacturing
- Economies of manufacturing scale
- Cost competitive products
- Engineering design and innovation
- High volumes of locally cast products
- Culture of continuous improvement
- Upliftment of skills
- Job retention and job creation
- New enterprises
- Export opportunities exploited