

PNGRB
KNOWLEDGE SHARING
WORKSHOP FOR CGD
ENTITIES
APP BASED SAFETY WORK
PERMIT SYSTEM



INDRAPRASTHA GAS LTD



ABOUT INDRAPRASTHA GAS LIMITED

Incorporated in 1998, IGL took over Delhi City Gas Distribution Project in 1999 from GAIL (India) Limited (Formerly Gas Authority of India Limited with the objective to provide safe, convenient and reliable natural gas supply to it's customers across domestic, commercial, industrial and transport segment.

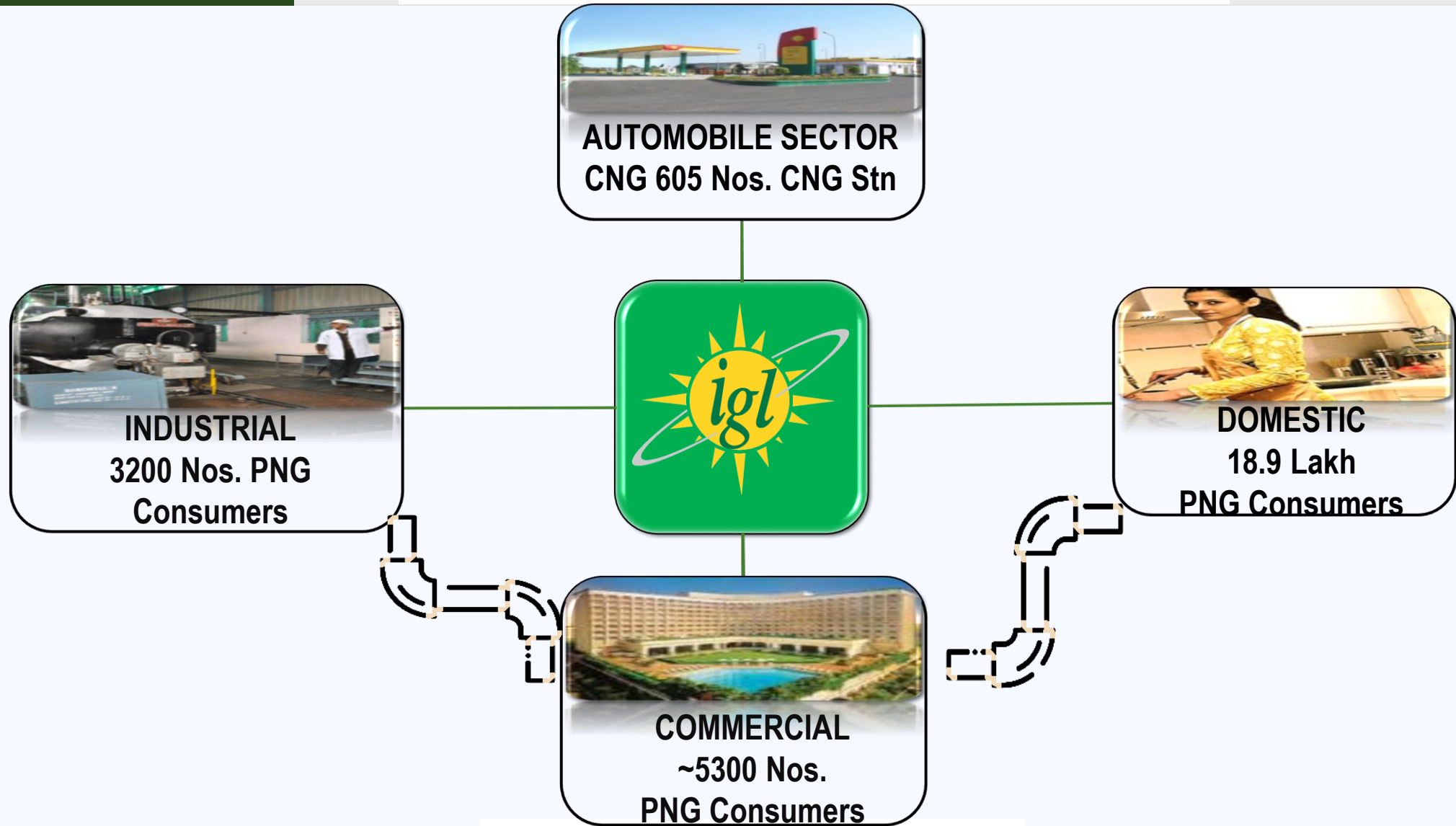


India's Leading Clean Energy Solution Provider through Customer Centricity, Innovative Technology and Diversification, with International Presence.



Committed to Provide Safe, Reliable & Clean Energy Solutions to Improve Quality of Life and Enhance Stakeholder's Value."

BUSINESS SEGMENTS

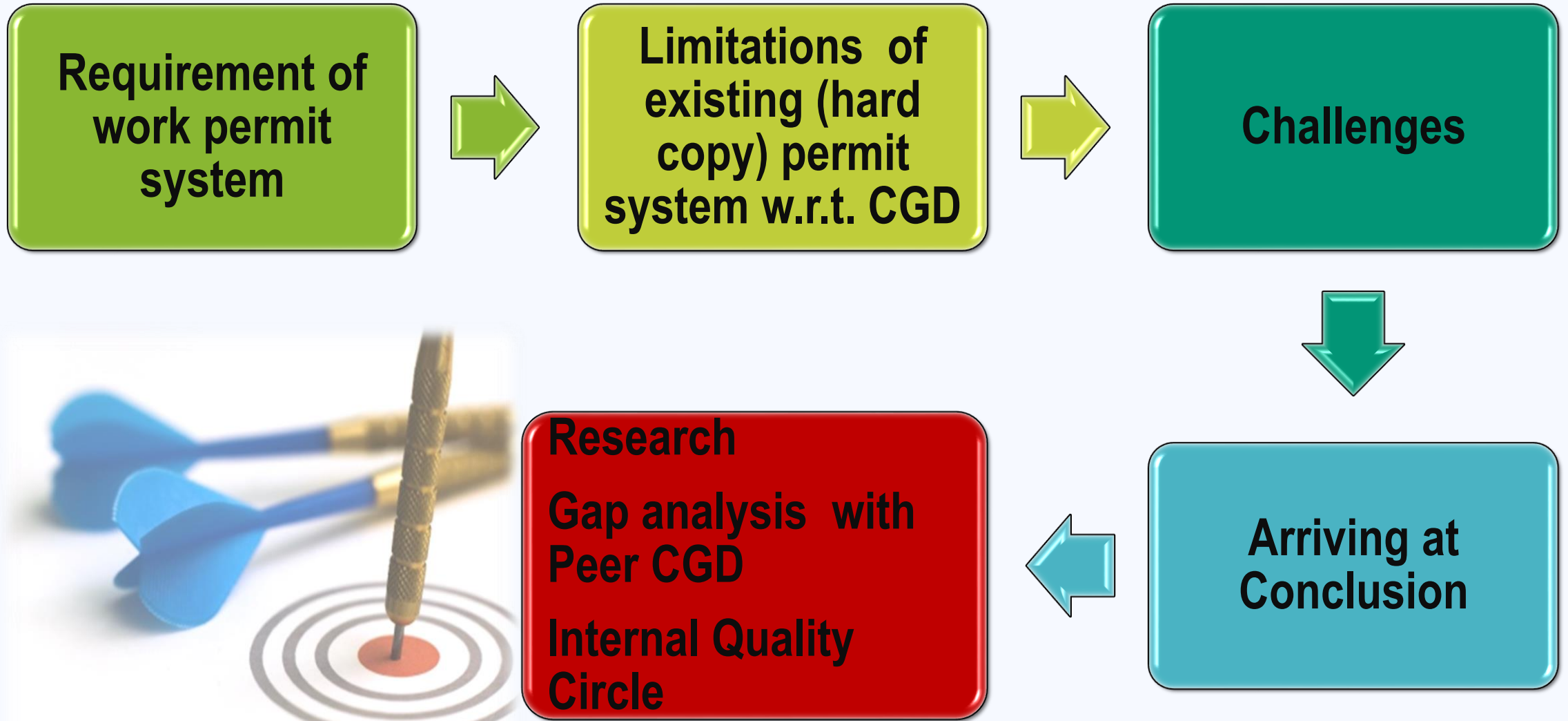


GENESIS

WHY APP BASED PTW?



DEVELOPING SOLUTION



REQUIREMENT



Factories Act 1948

**PNGRB Regulations
T4S
ERDMP**

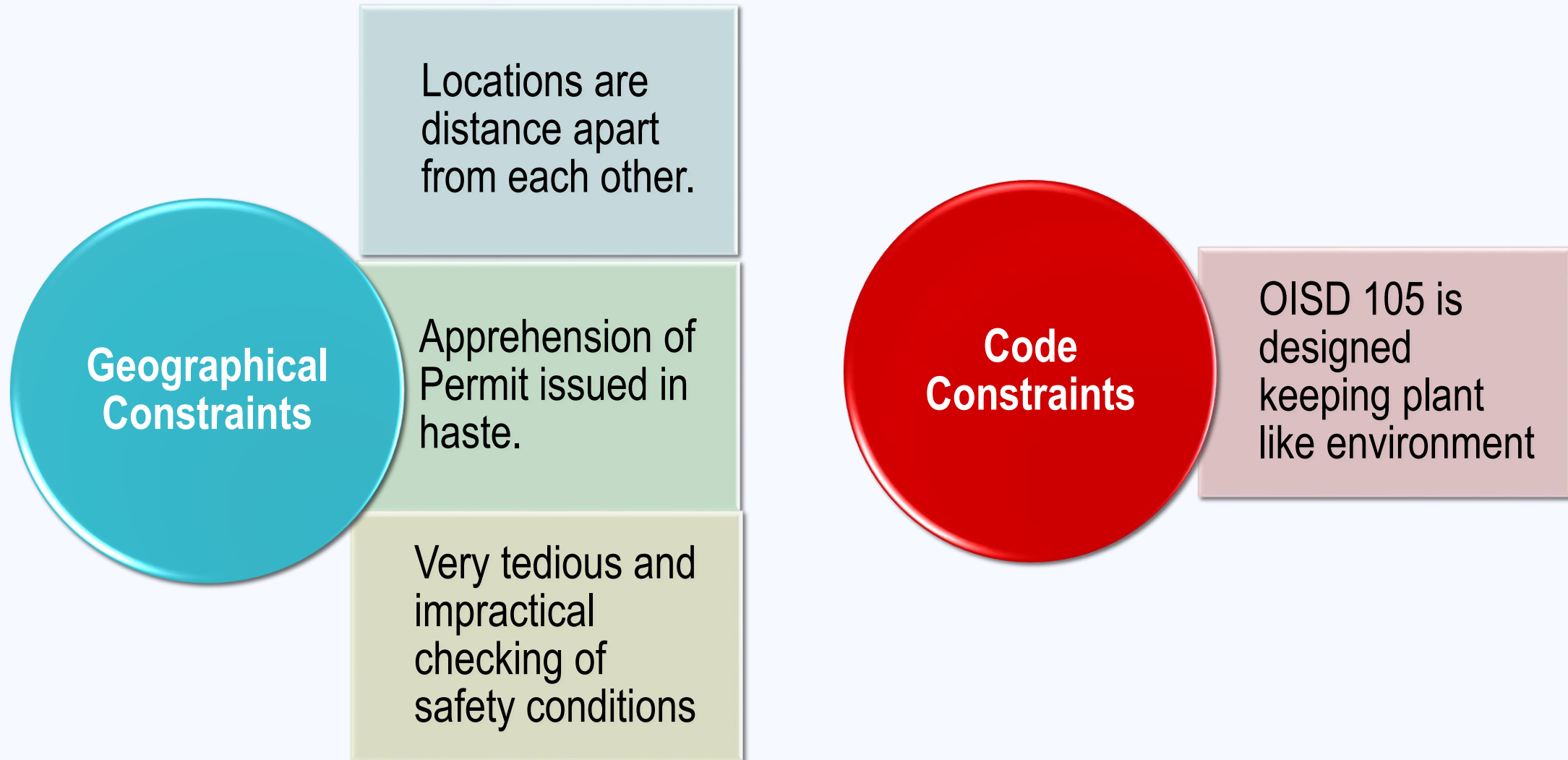


OISD 105



**IMS
NFPA
IS CODES**

LIMITATIONS OF HARD COPY PERMIT

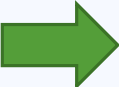


CHALLENGES

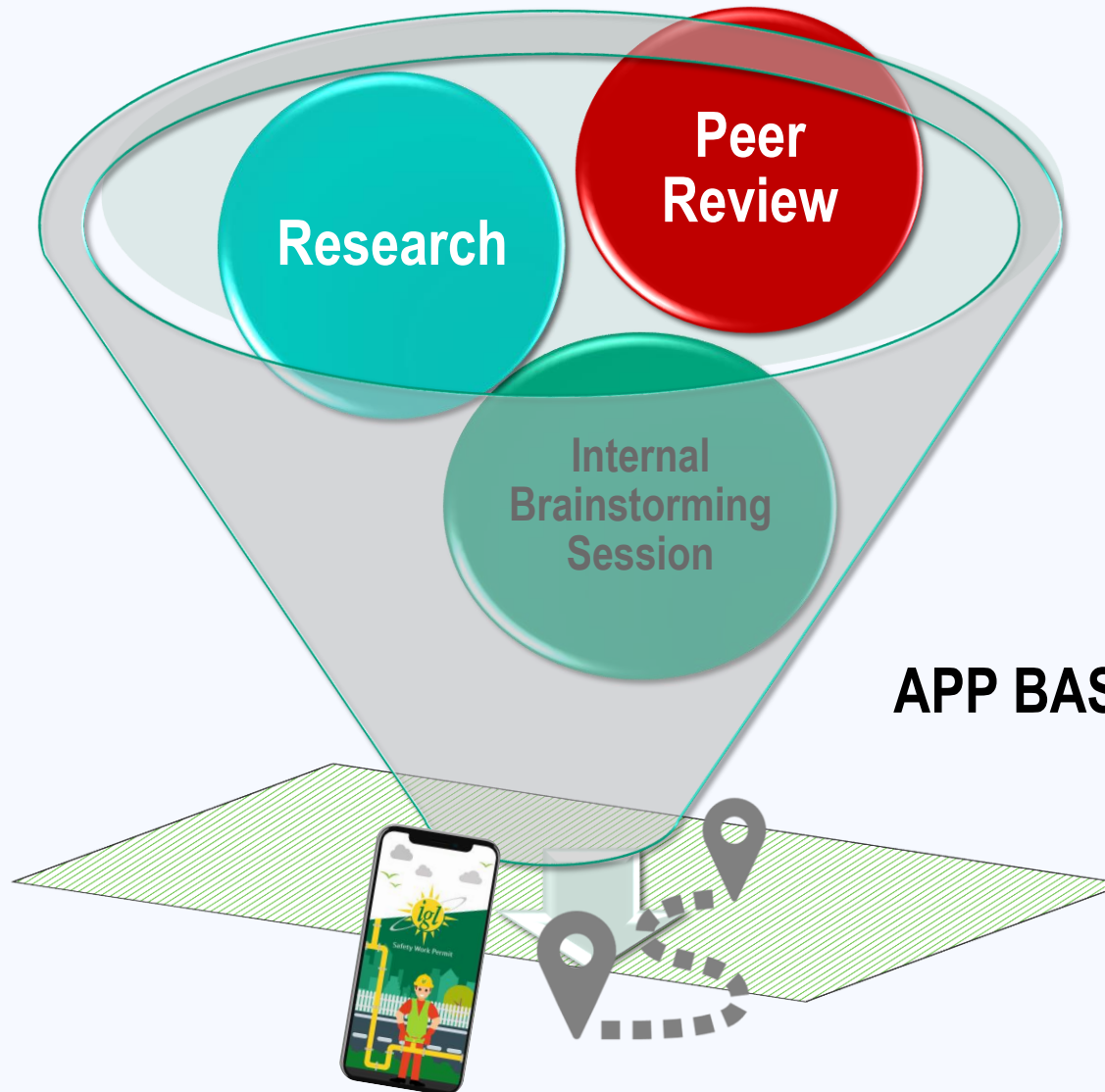


- Compliance to all applicable rules and standards.
- Enhancing and upgradation of existing safety work permit system.
- Avoid unnecessary delay in issuance of work permit by optimizing the existing resources.
- Ensuring real time tracking:
 - 100% site visits,
 - 100% compliance to usage of PPEs thereby ensuring the safety of staff.
 - Effective supervision to ensure compliance to Permit conditions.

ARRIVING AT CONCLUSION

Particulars	Findings
Research	Digital solutions/platforms are available in the market. For ex. Online work permit system
Peer review	Field visit of peer gas company Mahanagar Gas Limited having a full fledged app based permit to work for work at height.
Internal Brainstorming Session	Internal Quality Circle 

DIGITAL SOLUTION



APP BASED PERMIT TO WORK SYSTEM

BENEFITS OF APP BASED PTW SYSTEM

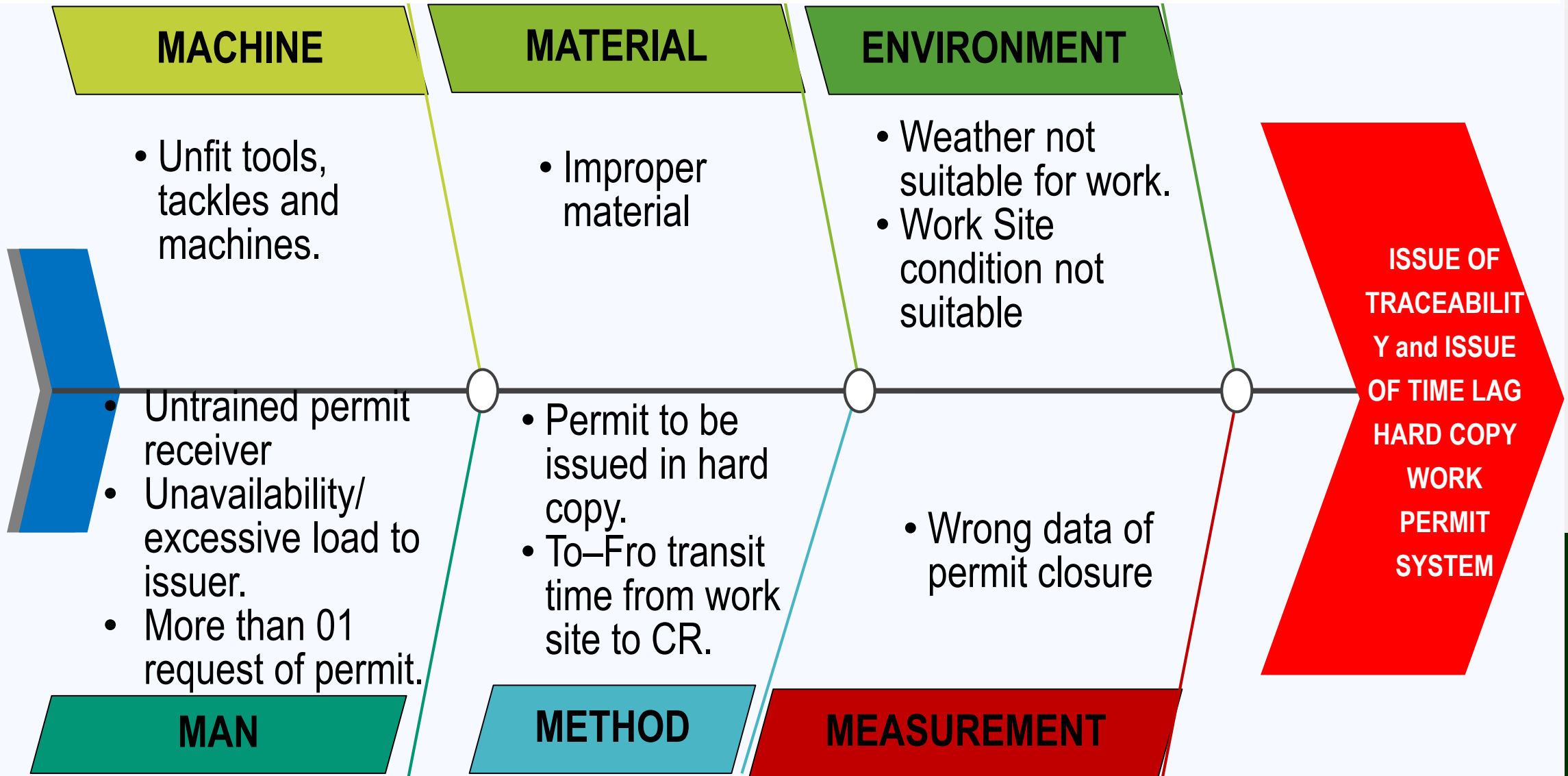
Benefits	Hard Copy	App Based
Environmental Aspect (reduced carbon footprint): <ul style="list-style-type: none"> Reduction in use of papers. Fuel saving by reducing the transit period, 	NO	YES
Safety Aspects: <ul style="list-style-type: none"> Digital recordkeeping helps in reducing the Fire Hazard – easy traceability. Road Safety due to reduction in travelling time. Generating documentary evidence. Supervision of persons who are properly trained, competent and authorised. 100 % compliance of work permit system. 100% compliance to usage of PPEs. Compliance to all applicable rules and standards 	NO	YES
Operation Aspect: <ul style="list-style-type: none"> Improved utilization of resources and effective supervision. Ease of reach to worksite. Improved productivity & overall reduction in cost of work. Ensuring real time tracking and avoid unnecessary delay in issuance of work permit by optimizing the existing resources. 	NO	YES



Thank you!



CAUSE ANALYSIS

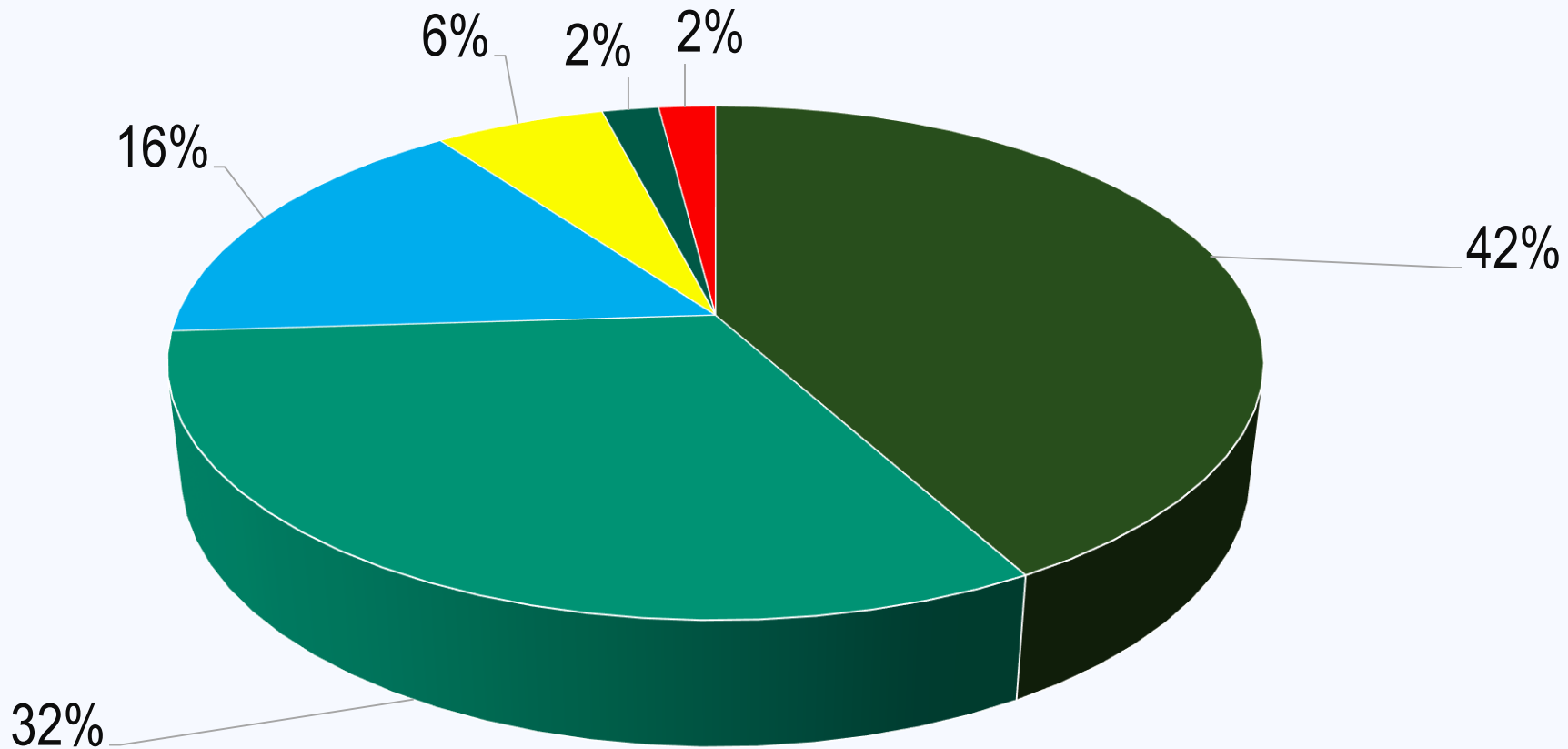


IMPACT ANALYSIS

HARD COPY PERMIT SYSTEM

Major Issues	Identified Problems	Impact
Audit Major non-compliance i.e. Traceability of issued work permit	Permit issued in hard copy for work to be done at a distant site.	<ul style="list-style-type: none"> • Paper work (environmental aspect). • Space constraint for record keeping - Fire Hazard due to combustible storage.
	The receivers prefer to return it for closure at some other day. Preferably on the day of requesting new permit.	<ul style="list-style-type: none"> • Transportation between Control room and working site and vice versa. • In transit road safety issue.
Time lag between issue & start of work and delay in closure of work permit	Time lag between issue & start of work and delay in closure of work permit	<ul style="list-style-type: none"> • In transit period during issue and closure of work permit.
		<ul style="list-style-type: none"> • Denial of new work permit due to non closure of previous permit leading to altercation between issuer and receiver.
		<ul style="list-style-type: none"> • Improper utilization of resources – man, machine due to longer waiting period.
		<ul style="list-style-type: none"> • Apprehension of Permits gets issued in haste without giving heed to the actual requirements may lead to non compliance to SOPs.

■ same day ■ 2 days ■ 3 days ■ 4 days ■ 5 to 10 days ■ more than 10 days



No. of permits closed after expiry date
(for 50 closed permits on sample basis)

AVERAGE TRANSIT PERIOD

Average Transit Time (in mins)

