

OVERALL STRATEGIES

Human Resource

- Modelling Software trainings
- Training on New Construction Tools/Techniques/Equipment

Needed R&D Technologies

1. Technologies for upland, coastal, flood and earthquake resistant infrastructures
2. Housing technologies
3. Advanced Laboratory testing facility
4. Value-adding agro-industrial waste for different construction products/applications
5. Modular testing, monitoring, surveying equipment
6. Adoption of new construction practices, tools, techniques
7. Advance preservation S&T based strategy of heritage sites

Facilities/Services

1. Laboratory testing facility for:
 - Durability & performance of concrete
 - Coastal, Earthquake and Wind Engineering simulation testing laboratory
 - Construction Materials/Product Testing Laboratory
2. Digital Technologies innovation Center for Construction
3. Heritage Site/Building Center
4. Underground engineering

S&T Policy initiatives

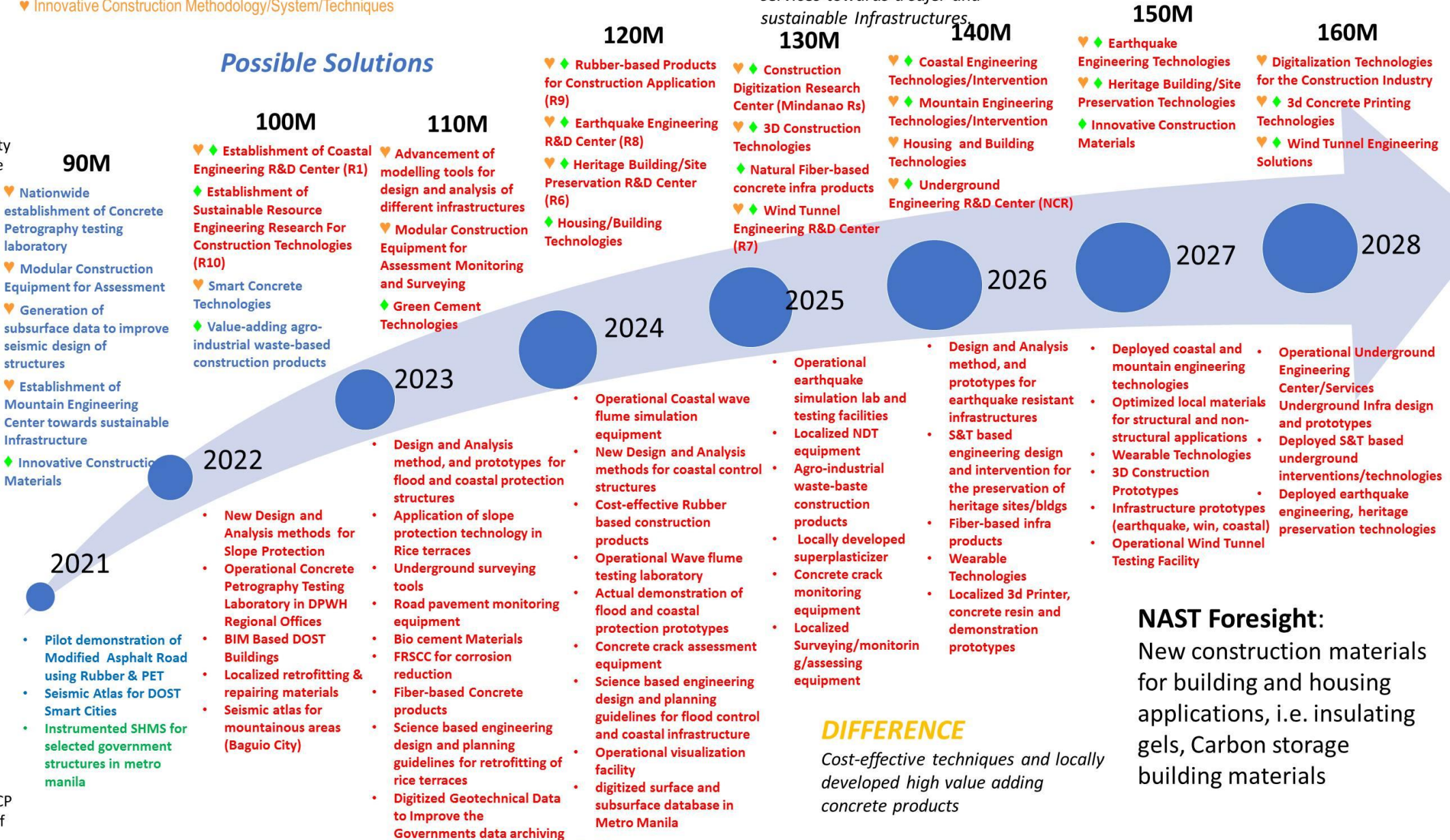
1. Inclusion of locally developed construction products in the DPWH local standards and AITECH accreditation
2. Updating of NSCP to consider the generated seismic data in seismic design of structures, and the new materials developed
3. new testing requirement in the NBCP
4. Local utilization and prioritization of locally developed construction products

Construction Sector S&T Roadmap

THEMATIC AREAS:

- ◆ Sustainable Construction Materials
- ♥ Innovative Construction Methodology/System/Techniques

Possible Solutions



Vision

- Advance and reliable construction materials and services towards a safer and sustainable Infrastructures.

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Done	Ongoing	Not yet Available
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DIFFERENCE

Cost-effective techniques and locally developed high value adding concrete products

NAST Foresight:

New construction materials for building and housing applications, i.e. insulating gels, Carbon storage building materials

Milestones