



IAEA

60 Years

Atoms for Peace and Development

IAEA's approach to transfer of Knowledge

Willie Meyer

Predisposal Specialist

Waste Technology Section

Contents

1. IAEA and Waste Technology Section
2. Predisposal section and activities
3. Graphite status & objective
4. Confirm agreed TOR for this Expert Mission

1. IAEA

Established in 1957

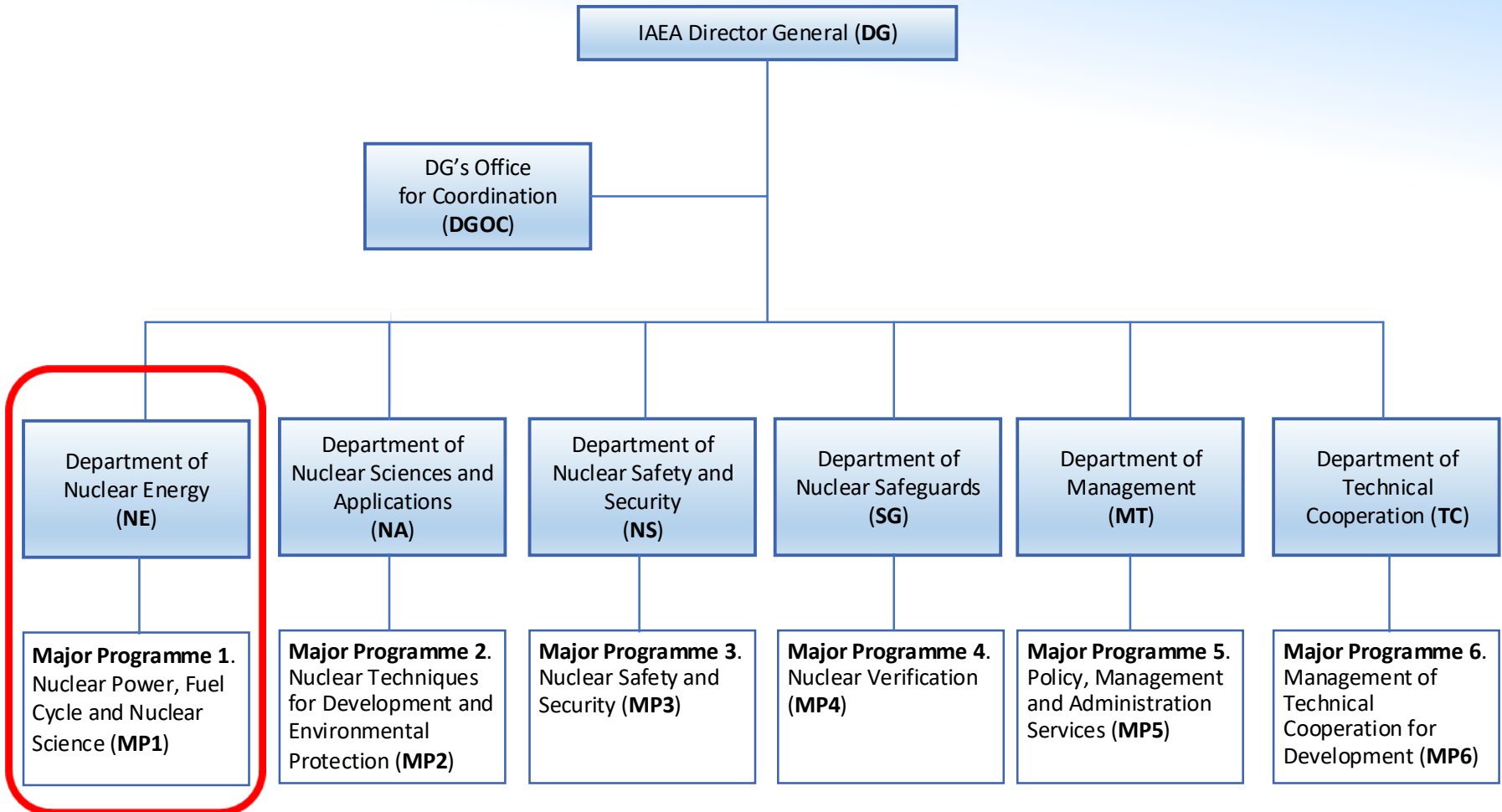
171 Member States

**~ 2,560 multidisciplinary
professional and support staff
from more than 100 countries**



- IAEA IS ADVISORY BODY
- MEMBERS STATES DETERMINE THEIR OWN APPROACHES
- IAEA AND MEMBERSTATE COULD HAVE DIFFERENT VIEWS

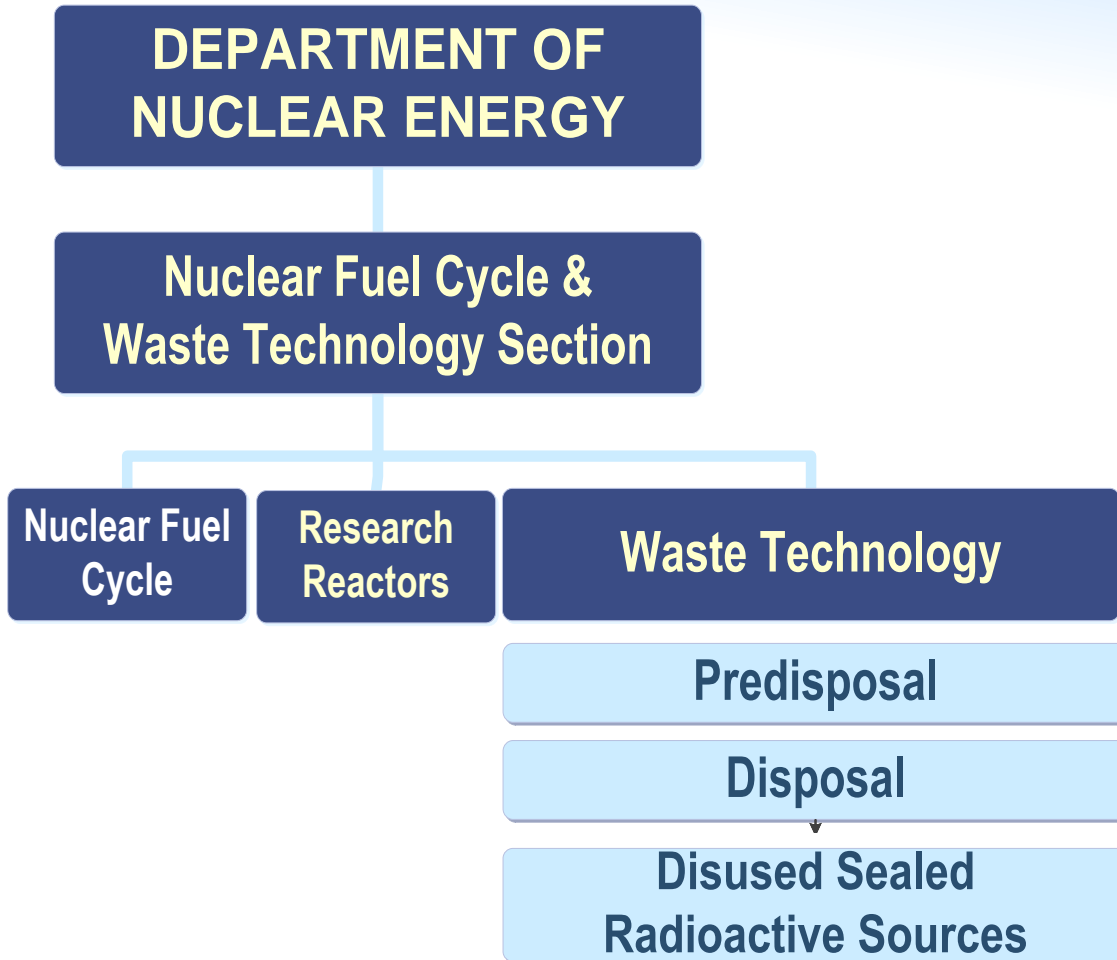
1. IAEA Departments and Major Programmes



1. IAEA's Waste Technology Section

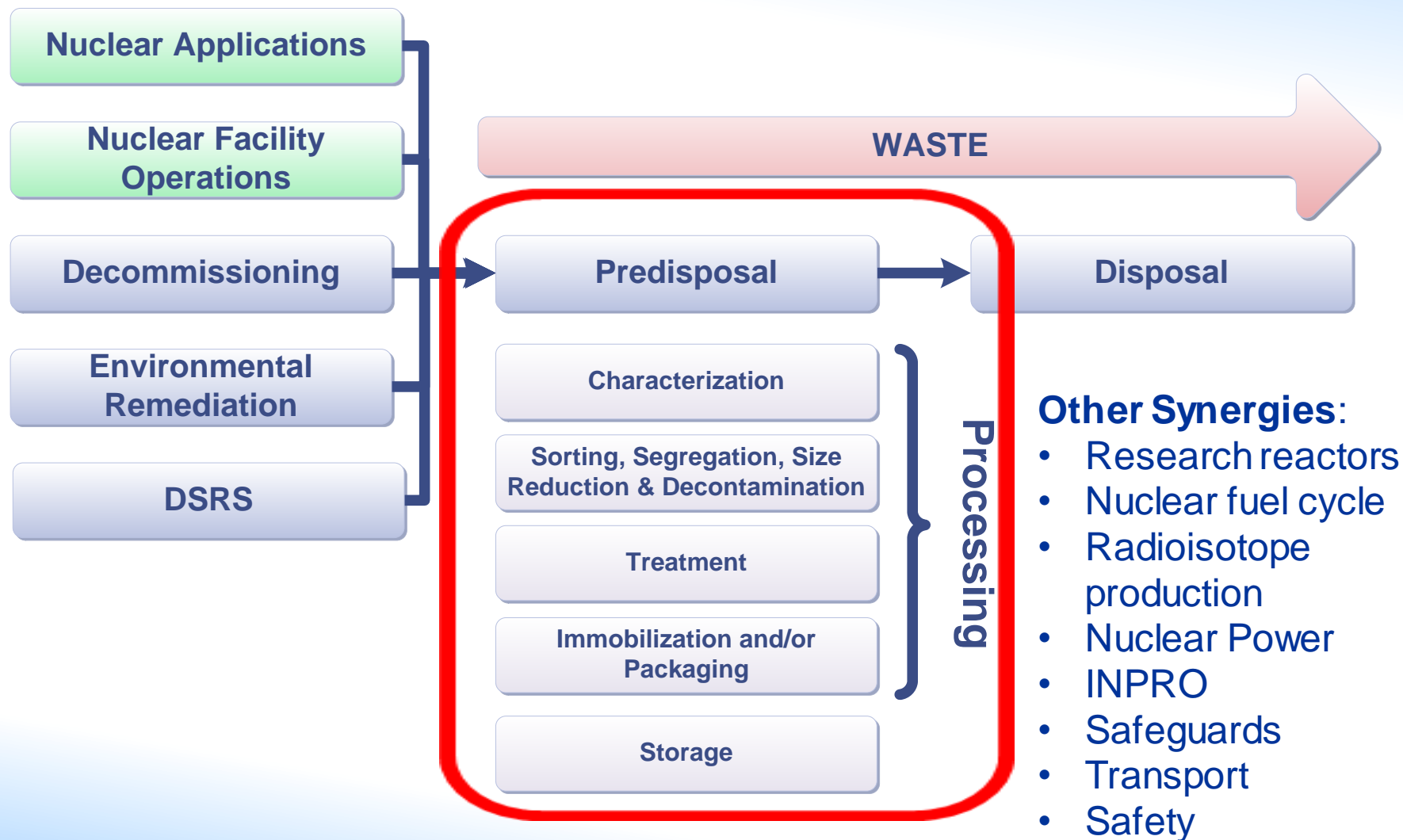


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- Promote information exchange
- Foster technology transfer
- Cooperative research
- Capacity building in Member States

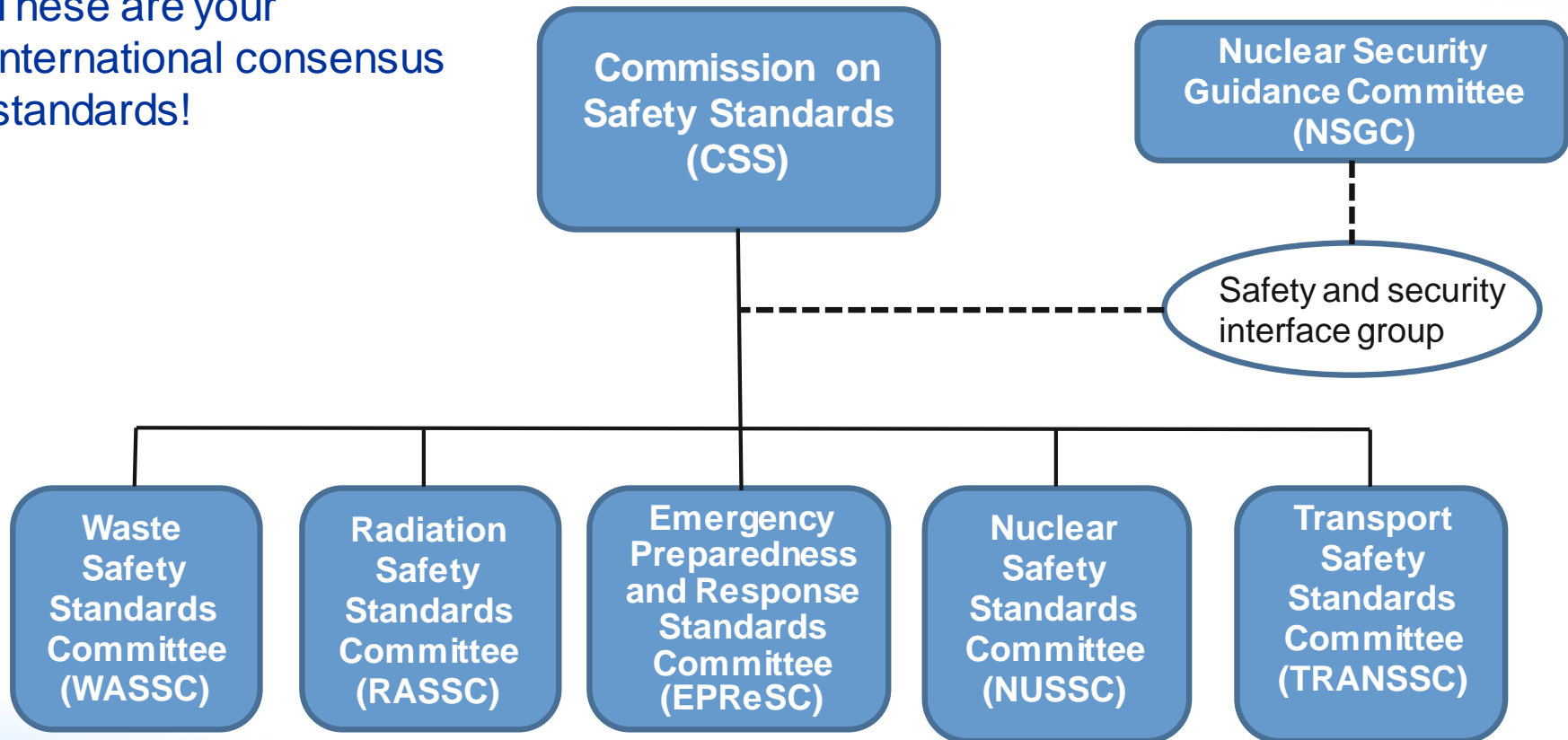
2. Predisposal section and activities



3. The Commission and Committees for Safety Standards Development

One commission and five safety standards committees oversee the development and approval of the IAEA safety standards.

These are your international consensus standards!



Member States nominate the committee members.



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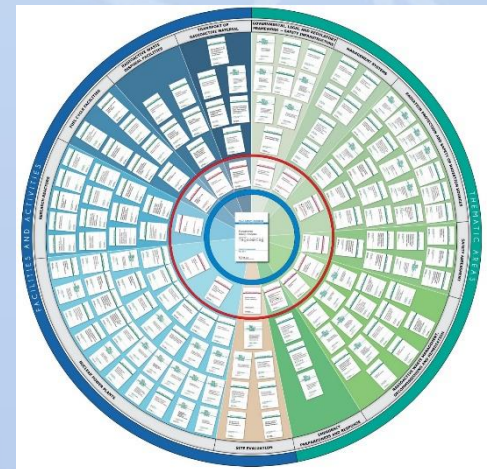
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3. Legal Nature of IAEA Safety Standards

IAEA Safety standards are:

- Binding for IAEA's own activities
- Not binding on the Member States (but may be adopted by them) EXCEPT in relation to operations assisted by the IAEA e.g.:
 - Integrated Regulatory Review Service
 - Technical Cooperation Fund activities
 - States wishing to enter into project agreements with the IAEA
- Joint Convention

<http://www-ns.iaea.org/standards/default.asp>



3. Development of document- New or Revision

- STEP 1:** Preparing a Document Preparation Profile (DPP)
- STEP 2:** Internal review of the DPP
- STEP 3:** Preparing the draft at CM 1
- STEP 4:** First internal review of the draft to safety department
- STEP 5:** First review of the draft by member states at TM 1
- STEP 6:** Soliciting comments by Member States
- STEP 7:** Addressing comments by Member States
- STEP 8:** Second internal review of the draft at CM 2
- STEP 9:** Review of the draft safety standard
- STEP 10:** Publications Committee
- STEP 11:** Publication

3. Transfer of information

Key Core Technical Publications



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Predisposal 'Handbook' Series

Consolidate and present all technical information related to predisposal that will maintained and supplemented electronically and updated periodically (every ~10 years)

Part I: Technical Overview – provides a concise summary of technical information.

Part II: Annexes* – provide detailed information on technical options, design basis, operational requirements, best practices, lessons learned, emerging technologies



Part I published as paper report and Part II will be electronic (CD/network 'cloud' based)

3. Transfer of information

Co-ordinated Research Projects (CRPs)



- CRPs are tools to encourage information exchange/cooperation on on-going R&D activities in MS on selected topics of common interest
- Usually participants from 10-15 countries
- Periodic Research Coordination Meetings organized to facilitate exchange of progress, discussions
- Results of CRP published as Agency Reports

In Publication

**Processing of Irradiated
Graphite to Meet Waste
Acceptance Criteria**

Results of a Coordinated Research Project



In Draft

**Processing Technologies for
HLW, Formulation of Matrices
and Characterization of Waste
Forms**

Results of a Coordinated Research Project



New Proposal

**Long-lived Alpha Bearing
Waste Management—
Characterization, Processing &
Storage**

Results of a Coordinated Research Project



New Proposal

**Ion Beam Irradiation for High-
Level Nuclear Wasteform
Development (INWARD)**

Disposal of Radioactive Waste

Results of a Coordinated Research Project



3. Transfer of information

International Predisposal Network



International Predisposal Network (IPN)

This website is a gateway to the IAEA International Predisposal Network, which aims to give information about existing technologies and practices relevant to the predisposal of radioactive waste, for example, characterisation, pre-treatment, treatment and storage. It also provides access to a forum of experts where predisposal queries can be asked and answered, and it details network meetings and workshops. Finally, the latest trends, research and status of radioactive waste predisposal are summarised, to allow you to keep up

Promotel Links



Google “IAEA” and
“CONNECT” and follow the
links to IPN

<https://nucleus.iaea.org/sites/connect-members/ipn/Pages/default.aspx>

<https://nucleus.iaea.org/sites/connect-members/ipn/Pages/default.aspx>

<https://nucleus.iaea.org/sites/connect/IPNpublic/Pages/Registration.aspx>



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Thank you