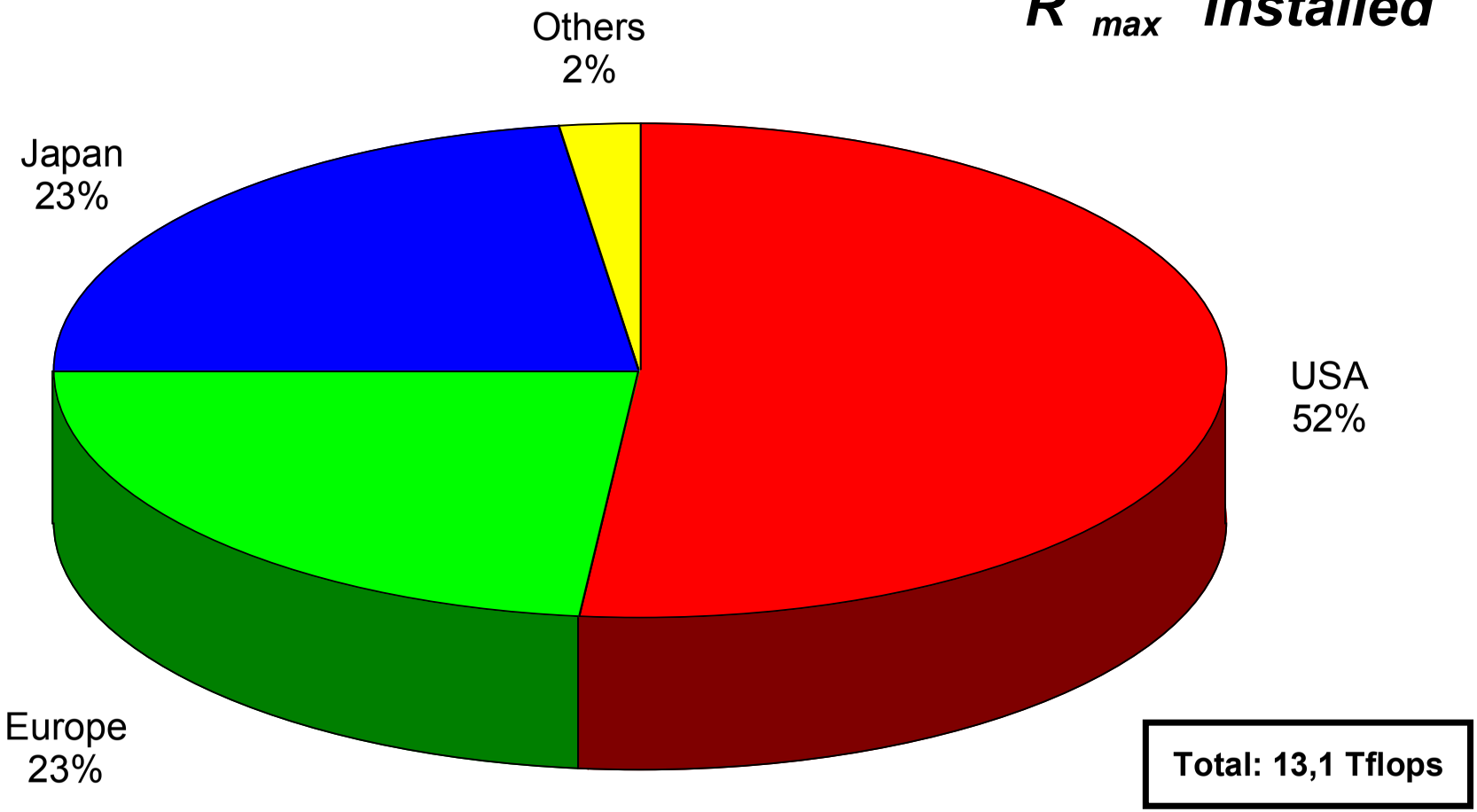R_{max} installed