

## Supplementary materials

### An Integrative Literature Review of University-based Early Childhood Education and Care Centres within Early Childhood Teacher Education Settings

**Table S1:** Supplementary material concerning results of the research question 2 (see Table 2 and Table 3).

No.	Centre name (centres are organised by affiliation)	Public or private host university	Structure of ECEC (includes educational and caring aspects)	Theoretical framework or curriculum of ECEC
<i>Affiliated with the university but no more details were available regarding the affiliation (n = 10)</i>				
1.	Karen Slattery Educational Research Center for Child Development [57]	Public	ECEC for children aged from 3 months to 5 years.	Inclusive
2.	Child development laboratory school <sup>1</sup> [59]	Private	ECEC for preschool-aged children.	Child-centred, DAP <sup>3</sup>
3.	The campus laboratory school child development center <sup>1</sup> [23]	Public	ECEC for 56 infants, toddlers, and preschool-aged children.	DAP <sup>3</sup>
4.	Harold E. Jones Child Study Center [61]	Public	Full-day ECEC for young children.	Influenced by Montessori, Head Start, High/Scope, Bank Street, British Infant School.
5.	GMU Child Development Center [40]	Public	Full-day ECEC for 125 children aged 2–4 years. Summer programmes for children aged 5–8 years, Al's Pals programme.	Learning by playing
6.	Botanical Garden Room <sup>1</sup> [24]	-	ECEC group room offers full-day and half-day ECEC for 8 infants aged approx. 10–20 months. <sup>5</sup>	-
7.	Experimental Greenhouse Room <sup>1</sup> [24]	-	ECEC group room offers full-day ECEC for 8 infants aged approx. 3–14 months. <sup>5</sup>	-
8.	Wildflower Valley Room <sup>1</sup> [24]	-	ECEC group room offers full-day and half-day ECEC for 8 infants aged approx. 6.5–15 months. <sup>5</sup>	-
9.	Harold E. Jones Child Study Center [66]	-	Full-day ECEC for 50 preschool-aged children.	Research-based, constructivism, social constructivism, learning by doing, psychosocial development theory
10.	Virginia Tech Child Development Lab School [35]	Public	Half-day ECEC for 88 children aged from infancy to 5 years.	Social constructivism, Reggio Emilia, learning by playing
<i>Affiliated with an educational or developmental institution that operates within university (n = 20)</i>				
11.	Hashemite University nursery [55]	-	ECEC for children aged under 4 years.	-

12.	Merrill-Palmer Institute, laboratory programme [43]	Public	ECEC	-
13.	Kent State Child Development Center [56]	Public	Full-day ECEC for toddlers, preschool and kindergarten-aged children. Also primary programmes.	Reggio Emilia inspired
14.	Child Development Laboratory [15]	Public	Full-day ECEC for infant, toddler, and preschool-aged children of 192 families. Open ECEC activities for infants and their parents.	-
15.	USC/Gateway Child Development and Research Center [18]	Public	ECEC services were planned for approx. 200 children.	-
16.	Child Study Centre <sup>2</sup> [58]	Public	ECEC and summer programmes for children aged from 2 years to kindergarten.	-
17.	Kent State University Laboratory School [36]	Public	ECEC for 145 children aged 1.5–6 years.	Reggio Emilia inspired school of inquiry
18.	South Dakota State University Laboratory School [36]	Public	ECEC for 116 children aged 15 months to 6 years.	Reggio Emilia inspired school of inquiry
19.	Laboratory school <sup>1</sup> [60]	Public	ECEC for 117 children aged 15 months to 6 years.	Reggio Emilia inspired, inquiry-based practices. DAP <sup>3</sup>
20.	URI Child Development Center [62]	Public	Full-day ECEC for 34–40 children aged 3–6 years.	DAP <sup>3</sup>
21.	Dr. Pat Feinstein Child Development Center [62]	Public	Full-day ECEC for 34–40 children aged 3–6 years.	DAP <sup>3</sup>
22.	Early Childhood Research Laboratory [63]	-	Open ECEC activities (three playgroups) for infants and their parents.	-
23.	University laboratory preschool <sup>1</sup> [3]	-	Half-day ECEC for 50 children aged 2–4 years.	Constructivism, social constructivism, social learning theory
24.	Laboratory preschool <sup>1</sup> [64]	-	Half-day ECEC for 50 children aged 2–4 years.	Constructivism, social constructivism, social learning theory
25.	Myrna's Children's Village [32]	Public	Full-day and half-day ECEC for 164 children aged 0–5 years.	Depends on programmes. Programmes: Dona Ana County Head Start, La Clinica de Familia Early Head Start, Las Cruces public school classrooms, School for Young Children.
26.	Harriett Laboratory School [67]	Public	ECEC for 80 preschool-aged children. Programmes also for 84 children from kindergarten to sixth grade.	Child-focused, learning by exploring
27.	Malcolm Price Laboratory School [68]	Public	ECEC NK-students <sup>4</sup> , but also primary school programmes.	-
28.	Child development laboratory school <sup>1</sup> [69]	Public	Full-day ECEC and summer workshops for preschool-aged children, Saturday programmes for toddlers. Collaborations with local autism school, Head Start,	-

			and special needs school district programme.	
29.	Child Development Center for Learning and Research [70]	Public	Full-day ECEC for 40 children aged from 15 months to 5 years.	Reggio Emilia, social constructivism
30.	The SM Laboratory Preschool [71]	-	Half-day ECEC and summer program for children aged 3–5 years.	Reggio Emilia, constructivism, socio-cultural theory, emergent curriculum
<i>Affiliated with a medical school (n = 1)</i>				
31.	Yale Child Study Center [43]	Private	ECEC	-
<i>Affiliated with a community college (n = 3)</i>				
32.	Child development center <sup>1</sup> [31]	-	ECEC for children aged 1.5–5 years.	Child-centred, play-based, hands-on learning
33.	Wytheville Community College Child Development Center [40]	-	Full-day ECEC for 70 children aged from 2 months to 5 years.	-
34.	Housatonic Community College Early Childhood Laboratory School [65]	-	ECEC	-

<sup>1</sup>Pseudonym or the type of centre, if the name was not mentioned in a publication;

<sup>2</sup>According to the publication, the model is not operating anymore;

<sup>3</sup>DAP = developmentally appropriate practices;

<sup>4</sup>According to the yearbook of Malcolm Price Laboratory School (Northern University High School, 2007), NK-students were described as pre-kindergarten and kindergarten-aged children;

<sup>5</sup>According to children's ages, the ECEC group includes also toddlers.

**Table S2:** Supplementary material concerning results of the research question 3 (see Table 4, Table 5 and Table 6).

Academic mission	Academic activity	Name of university ECEC centre
Educational collaboration between university ECEC centres and EC teacher education programmes (n = 134)	Observation (n = 25)	Child development center [31] Child Development Center for Learning and Research [70] Child Development Laboratory [15] Child development laboratory school [59] Child development laboratory school [69] Child Study Centre [58] Dr. Pat Feinstein Child Development Center [62] Early Childhood Research Laboratory [63] Experimental Greenhouse Room [24] GMU Child Development Center [40] Harold E. Jones Child Study Center [61] Harold E. Jones Child Study Center [66] Harriett Laboratory School [67] Hashemite University nursery [55] Karen Slattery Educational Research Center for Child Development [57] Kent State Child Development Center [56] Kent State University Laboratory School [36] Laboratory preschool [64] Myrna's Children's Village [32]

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	The campus laboratory school child development center [23]
	The SM Laboratory Preschool [71]
	University laboratory preschool [3]
	URI Child Development Center [62]
	Virginia Tech Child Development Lab School [35]
	Wytheville Community College Child Development Center [40]
Research (conducted by preservice teachers) ( <i>n</i> = 23)	Botanical Garden Room [24]
	Child development center [31]
	Child Development Center for Learning and Research [70]
	Child Development Laboratory [15]
	Child development laboratory school [59]
	Child development laboratory school [69]
	Child Study Centre [58]
	Dr. Pat Feinstein Child Development Center [62]
	Early Childhood Research Laboratory [63]
	Experimental Greenhouse Room [24]
	Harold E. Jones Child Study Center [61]
	Harold E. Jones Child Study Center [66]
	Harriett Laboratory School [67]
	Kent State Child Development Center [56]
	Kent State University Laboratory School [36]
	Laboratory preschool [64]
	Laboratory school [60]
	Myrna's Children's Village [32]
	South Dakota State University Laboratory School [36]
	The campus laboratory school child development center [23]
	University laboratory preschool [3]
	URI Child Development Center [62]
	Virginia Tech Child Development Lab School [35]
Course assignments or projects ( <i>n</i> = 18)	Botanical Garden Room [24]
	Child development center [31]
	Child Development Center for Learning and Research [70]
	Child Development Laboratory [15]
	Child development laboratory school [59]
	Dr. Pat Feinstein Child Development Center [62]
	Early Childhood Research Laboratory [63]
	GMU Child Development Center [40]
	Harriett Laboratory School [67]
	Karen Slattery Educational Research Center for Child Development [57]
	Kent State Child Development Center [56]
	Laboratory preschool [64]
	Laboratory school [60]
	The campus laboratory school child development center [23]
	University laboratory preschool [3]
	URI Child Development Center [62]
	Virginia Tech Child Development Lab School [35]
	Wytheville Community College Child Development Center [40]
Preservice teaching ( <i>n</i> = 17)	Child development center [31]
	Child Development Center for Learning and Research [70]
	Child Development Laboratory [15]
	Child development laboratory school [59]
	Child development laboratory school [69]
	Experimental Greenhouse Room [24]
	Harold E. Jones Child Study Center [61]
	Harold E. Jones Child Study Center [66]
	Harriett Laboratory School [67]
	Kent State Child Development Center [56]
	Laboratory school [60]
	South Dakota State University Laboratory School [36]
	The campus laboratory school child development center [23]

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		The SM Laboratory Preschool [71] University laboratory preschool [3] Virginia Tech Child Development Lab School [35] Wildflower Valley Room [24]
	Practicum ( <i>n</i> = 12)	Botanical Garden Room [24] Child development center [31] Child Development Laboratory [15] Child development laboratory school [69] Dr. Pat Feinstein Child Development Center [62] Early Childhood Research Laboratory [63] Harold E. Jones Child Study Center [61] Harriett Laboratory School [67] Laboratory school [60] Myrna's Children's Village [32] URI Child Development Center [62] Virginia Tech Child Development Lab School [35]
	Internship ( <i>n</i> = 11)	Child Development Center for Learning and Research [70] Child Development Laboratory [15] Child development laboratory school [59] Child development laboratory school [69] Dr. Pat Feinstein Child Development Center [62] Kent State University Laboratory School [36] Laboratory preschool [64] Myrna's Children's Village [32] University laboratory preschool [3] URI Child Development Center [62] Virginia Tech Child Development Lab School [35]
	Other types of training ( <i>n</i> = 8)	Child development laboratory school [59] Child Study Centre [58] Hashemite University nursery [55] Karen Slattery Educational Research Center for Child Development [57] Kent State University Laboratory School [36] Laboratory preschool [64] Malcolm Price Laboratory School [68] Wytheville Community College Child Development Center [40]
	Giving lectures and presentations ( <i>n</i> = 10)	Child development center [31] Child Development Center for Learning and Research [70] Child Development Laboratory [15] Child development laboratory school [59] Child development laboratory school [69] Child Study Centre [58] Laboratory school [60] The SM Laboratory Preschool [71] University laboratory preschool [3] URI Child Development Center [62]
	Participating in reportage and evaluation ( <i>n</i> = 7)	Botanical Garden Room [24] Child development center [31] Child Development Center for Learning and Research [70] Child development laboratory school [59] Laboratory preschool [64] Myrna's Children's Village [32] The campus laboratory school child development center [23]
	Organising events ( <i>n</i> = 3)	Early Childhood Research Laboratory [63] Malcolm Price Laboratory School [68] Wildflower Valley Room [24]
Research collaboration between university ECEC centres	Facilitate research conducted by preservice teachers	Botanical Garden Room [24] Child development center [31] Child Development Center for Learning and Research [70] Child Development Laboratory [15] Child development laboratory school [59]

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and universities (n = 98)	(n = 23)	Child development laboratory school [69] Child Study Centre [58] Dr. Pat Feinstein Child Development Center [62] Early Childhood Research Laboratory [63] Experimental Greenhouse Room [24] Harold E. Jones Child Study Center [61] Harold E. Jones Child Study Center [66] Harriett Laboratory School [67] Kent State Child Development Center [56] Kent State University Laboratory School [36] Laboratory preschool [64] Laboratory school [60] Myrna's Children's Village [32] South Dakota State University Laboratory School [36] The campus laboratory school child development center [23] University laboratory preschool [3] URI Child Development Center [62] Virginia Tech Child Development Lab School [35]
	Facilitate research conducted by faculty members (n = 21)	Botanical Garden Room [24] Child development center [31] Child Development Center for Learning and Research [70] Child Development Laboratory [15] Child development laboratory school [59] Child development laboratory school [69] Child Study Centre [58] Dr. Pat Feinstein Child Development Center [62] Experimental Greenhouse Room [24] Harold E. Jones Child Study Center [61] Harriett Laboratory School [67] Karen Slattery Educational Research Center for Child Development [57] Kent State University Laboratory School [36] Laboratory preschool [64] Myrna's Children's Village [32] South Dakota State University Laboratory School [36] The SM Laboratory Preschool [71] University laboratory preschool [3] URI Child Development Center [62] Virginia Tech Child Development Lab School [35] Wildflower Valley Room [24]
	Facilitate multidisciplinary research (n = 11)	Child development center [31] Child Development Center for Learning and Research [70] Child Development Laboratory [15] Child development laboratory school [69] Child Study Centre [58] GMU Child Development Center [40] Harold E. Jones Child Study Center [61] Karen Slattery Educational Research Center for Child Development [57] Kent State University Laboratory School [36] South Dakota State University Laboratory School [36] University laboratory preschool [3]
	Directors as researchers (n = 14)	Child development center [31] Child Development Center for Learning and Research [70] Child Development Laboratory [15] Child development laboratory school [69] Early Childhood Research Laboratory [63] Harriett Laboratory School [67] Kent State Child Development Center [56] Kent State University Laboratory School [36]

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		Laboratory preschool [64]
		Laboratory school [60]
		South Dakota State University Laboratory School [36]
		University laboratory preschool [3]
		USC/Gateway Child Development and Research Center [18]
		Virginia Tech Child Development Lab School [35]
	Teachers as researchers (n = 10)	Child Development Center for Learning and Research [70]
		Early Childhood Research Laboratory [63]
		Harold E. Jones Child Study Center [66]
		Kent State Child Development Center [56]
		Kent State University Laboratory School [36]
		Laboratory school [60]
		Malcolm Price Laboratory School [68]
		South Dakota State University Laboratory School [36]
		University laboratory preschool [3]
		Virginia Tech Child Development Lab School [35]
	University-based ECEC centre as applicator of research results (n = 19)	Botanical Garden Room [24]
		Child development center [31]
		Child Development Center for Learning and Research [70]
		Child Development Laboratory [15]
		Child development laboratory school [59]
		Dr. Pat Feinstein Child Development Center [62]
		Early Childhood Research Laboratory [63]
		Harold E. Jones Child Study Center [66]
		Harriett Laboratory School [67]
		Kent State Child Development Center [56]
		Kent State University Laboratory School [36]
		Laboratory preschool [64]
		Laboratory school [60]
		Myrna's Children's Village [32]
		South Dakota State University Laboratory School [36]
		The SM Laboratory Preschool [71]
		University laboratory preschool [3]
		URI Child Development Center [62]
		Virginia Tech Child Development Lab School [35]
		Child development center [31]
		Child Development Center for Learning and Research [70]
		Child Development Laboratory [15]
		Child development laboratory school [59]
		Child development laboratory school [69]
		Child Study Centre [58]
		Dr. Pat Feinstein Child Development Center [62]
		Early Childhood Research Laboratory [63]
		Experimental Greenhouse Room [24]
		Harold E. Jones Child Study Center [66]
		Harriett Laboratory School [67]
		Kent State Child Development Center [56]
		Laboratory school [60]
		Malcolm Price Laboratory School [68]
		Merrill-Palmer Institute, laboratory programme [43]
		Myrna's Children's Village [32]
		South Dakota State University Laboratory School [36]
		The SM Laboratory Preschool [71]
		University laboratory preschool [3]
		URI Child Development Center [62]
		USC/Gateway Child Development and Research Center [18]
		Virginia Tech Child Development Lab School [35]
		Wildflower Valley Room [24]
Outreach activities of university ECEC centres (n = 209)	Sharing information about university ECEC centre (n = 23)	

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Writing scholarly publications ( <i>n</i> = 20)	Child development center [31] Child Development Center for Learning and Research [70] Child Development Laboratory [15] Child development laboratory school [69] Child Study Centre [58] Dr. Pat Feinstein Child Development Center [62] Early Childhood Research Laboratory [63] Harold E. Jones Child Study Center [66] Harriett Laboratory School [67] Kent State Child Development Center [56] Kent State University Laboratory School [36] Laboratory preschool [64] Laboratory school [60] Malcolm Price Laboratory School [68] Merrill-Palmer Institute, laboratory programme [43] South Dakota State University Laboratory School [36] University laboratory preschool [3] URI Child Development Center [62] USC/Gateway Child Development and Research Center [18] Virginia Tech Child Development Lab School [35]
Giving conference presentations ( <i>n</i> = 13)	Child development center [31] Child Development Center for Learning and Research [70] Child Development Laboratory [15] Child development laboratory school [69] Dr. Pat Feinstein Child Development Center [62] Early Childhood Research Laboratory [63] Harriett Laboratory School [67] Kent State Child Development Center [56] Kent State University Laboratory School [36] Malcolm Price Laboratory School [68] South Dakota State University Laboratory School [36] URI Child Development Center [62] Virginia Tech Child Development Lab School [35]
Hosting visits in university ECEC centre ( <i>n</i> = 24)	Botanical Garden Room [24] Child development center [31] Child Development Center for Learning and Research [70] Child Development Laboratory [15] Child development laboratory school [59] Child development laboratory school [69] Child Study Centre [58] Dr. Pat Feinstein Child Development Center [62] Early Childhood Research Laboratory [63] Experimental Greenhouse Room [24] Harold E. Jones Child Study Center [61] Hashemite University nursery [55] Housatonic Community College Early Childhood Laboratory School [65] Karen Slattery Educational Research Center for Child Development [57] Kent State Child Development Center [56] Kent State University Laboratory School [36] Laboratory school [60] Myrna's Children's Village [32] South Dakota State University Laboratory School [36] The SM Laboratory Preschool [71] University laboratory preschool [3] URI Child Development Center [62] Virginia Tech Child Development Lab School [35] Wildflower Valley Room [24]

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Participating in collaborative meetings <i>(n = 21)</i>	Botanical Garden Room [24] Child development center [31] Child Development Center for Learning and Research [70] Child Development Laboratory [15] Child development laboratory school [59] Child development laboratory school [69] Child Study Centre [58] Dr. Pat Feinstein Child Development Center [62] Early Childhood Research Laboratory [63] Harold E. Jones Child Study Center [66] Kent State Child Development Center [56] Kent State University Laboratory School [36] Laboratory school [60] Malcolm Price Laboratory School [68] Myrna's Children's Village [32] South Dakota State University Laboratory School [36] University laboratory preschool [3] URI Child Development Center [62] USC/Gateway Child Development and Research Center [18] Virginia Tech Child Development Lab School [35] Wildflower Valley Room [24]
Networking and visiting in other university ECEC centres <i>(n = 10)</i>	Child development center [31] Child Development Center for Learning and Research [70] Child Development Laboratory [15] Early Childhood Research Laboratory [63] Housatonic Community College Early Childhood Laboratory School [65] Kent State Child Development Center [56] Kent State University Laboratory School [36] Laboratory school [60] South Dakota State University Laboratory School [36] Virginia Tech Child Development Lab School [35]
Training and educational activities for parents <i>(n = 17)</i>	Child development center [31] Child Development Center for Learning and Research [70] Child development laboratory school [59] Child development laboratory school [69] Child Study Centre [58] Dr. Pat Feinstein Child Development Center [62] Early Childhood Research Laboratory [63] Experimental Greenhouse Room [24] Harold E. Jones Child Study Center [61] Harold E. Jones Child Study Center [66] Hashemite University nursery [55] Kent State Child Development Center [56] Merrill-Palmer Institute, laboratory programme [43] Myrna's Children's Village [32] South Dakota State University Laboratory School [36] University laboratory preschool [3] Virginia Tech Child Development Lab School [35]
In-service training for ECEC community <i>(n = 15)</i>	Child development center [31] Child development laboratory school [69] Child Study Centre [58] Dr. Pat Feinstein Child Development Center [62] Early Childhood Research Laboratory [63] GMU Child Development Center [40] Harold E. Jones Child Study Center [61] Housatonic Community College Early Childhood Laboratory School [65] Kent State Child Development Center [56] Kent State University Laboratory School [36]

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	Laboratory school [60]
	Merrill-Palmer Institute, laboratory programme [43]
	URI Child Development Center [62]
	USC/Gateway Child Development and Research Center [18]
	Wildflower Valley Room [24]
Multidisciplinary educational collaboration with other university departments ( <i>n</i> = 12)	Child development center [31]
	Child Development Laboratory [15]
	Child development laboratory school [69]
	Child Study Centre [58]
	Dr. Pat Feinstein Child Development Center [62]
	Early Childhood Research Laboratory [63]
	GMU Child Development Center [40]
	Harold E. Jones Child Study Center [61]
	Karen Slattery Educational Research Center for Child Development [57]
	Myrna's Children's Village [32]
	University laboratory preschool [3]
	URI Child Development Center [62]
Supporting professional development of university faculty members ( <i>n</i> = 8)	Botanical Garden Room [24]
	Child development center [31]
	Dr. Pat Feinstein Child Development Center [62]
	Experimental Greenhouse Room [24]
	Harold E. Jones Child Study Center [61]
	Hashemite University nursery [55]
	Kent State Child Development Center [56]
	URI Child Development Center [62]
Representing in variety of committees or boards ( <i>n</i> = 14)	Child development center [31]
	Child Development Center for Learning and Research [70]
	Child Development Laboratory [15]
	Child development laboratory school [59]
	Child development laboratory school [69]
	Child Study Centre [58]
	Dr. Pat Feinstein Child Development Center [62]
	GMU Child Development Center [40]
	Harriett Laboratory School [67]
	Kent State Child Development Center [56]
	Malcolm Price Laboratory School [68]
	Myrna's Children's Village [32]
	The campus laboratory school child development center [23]
	URI Child Development Center [62]
Consulting ECEC community ( <i>n</i> = 10)	Child Development Laboratory [15]
	Child development laboratory school [59]
	Child development laboratory school [69]
	Child Study Centre [58]
	Harold E. Jones Child Study Center [61]
	Harriett Laboratory School [67]
	Kent State University Laboratory School [36]
	South Dakota State University Laboratory School [36]
	URI Child Development Center [62]
	Virginia Tech Child Development Lab School [35]
Conducting collaborative project with partners ( <i>n</i> = 7)	Child development center [31]
	Child Development Center for Learning and Research [70]
	Dr. Pat Feinstein Child Development Center [62]
	GMU Child Development Center [40]
	Hashemite University Nursery [55]
	Housatonic Community College Early Childhood Laboratory School [65]
	URI Child Development Center [62]

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Contributions to the organisation of conferences ( <i>n</i> = 6)	Child Development Center for Learning and Research [70] Child development laboratory school [69] Child Study Centre [57] Dr. Pat Feinstein Child Development Center [62] Malcolm Price Laboratory School [68] URI Child Development Center [62]
Carrying out fundraising efforts ( <i>n</i> = 9)	Child development center [31] Child Development Center for Learning and Research [70] Child development laboratory school [69] Dr. Pat Feinstein Child Development Center [62] Early Childhood Research Laboratory [63] Malcolm Price Laboratory School [68] University laboratory preschool [3] URI Child Development Center [62] USC/Gateway Child Development and Research Center [18]

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