Incubation Criteria Met	BP Family	BP Species name?	BP Submitter?	Submission date?	Akraino release target?	Templates complete?	Presented to TSC for Review?	Target Industry/Segm ent	Scope and Plan (business driveridesired outcome)?	Scope and Plan (use case description)?	Prepared to commit lab resources to support collaborative development and validation (date estimate)?	Lab HW requirement estimate	Prepared to commit resources to each BP species?	2 Contributors different companies?		d Cross Project Dependencies (XPD) identified with upstream?	All Open source software?	Notes
EXAMPLE ROW	Family or Species?	My Blueprint Example	EXAMPLE: Bob Brown, ABC Inc. bbrown@abc.com	11/01/201	8 R0	Use case check? Family check?	Yes	Telco? Enterprise?	MVP? Improved security? Reduced latency? Lower	5G base station? Smart City? Video surveilance?			Yes		Yes check, or No - provide feedback to	In Process		
Yes	Family Network Cloud	SON Enabled Broadband Access (SEBA)	Kandan Kathrival, AT&T	8/1/201	8 R1	Sneries rhank?	Yes	Telco	MVP	Virtual broadband access (YGS-PCN - Higher bandwidth			Yes	Cloudity, AT&T, Arm	Yes	CNF, TBD	OS - Uburtu 16 x  Docise 1.1.1 5 x drove / KB 1.10.2 or above- Centainer Christenstein  Under Coulo Christenstein  Under Coulo Christenstein  Under Coulo Christenstein  Vol. This (Vol. 16 year of the Christense Christens	
Yes	Family Network Cloud	Serverless BP for Addition to Network Cloud	James Williams, AT&T	11/13/201	R1	Yes	Yes	Telco	MVP	Serverless. Autonomous car. Provide FaaS. Can run on too of Unicycle.	Yes. Lab already		Yes	AT&T, Cloudify	Yes	TBD	EMS/NMS Adaptor Code not contributed yet. AT&T intends to contribute the code to Akraino. Yes. k8s, Airship, ONOS, ONAP, Ubuntu, Calico	APIs would be feature project.
Yes	Family Network Cloud	Family Unicycle Blueprint (SR-IOV)	James Williams, AT&T	8/1/201	R1	Yes	Yes	Telco,	MVP	5G Core or vRAN (RIC)	Yes .			Radysis, Netsia, ARM	Yes	ONF, ONAP, Docker, OS	Yes. k8s, Airship, ONOS, ONAP, Ubuntu,	180.
Yes	Family Network Cloud	Rover Blueprint	James Williams, AT&T	8/1/201	R2 most likely.	Yes	Yes	Enterorise Telco, Enterprise	MVP	5G micro edge or customer premises deployment	Yes		Yes	Ericsson ARM, Juniper, Radysis, Dell, HPE, Intel	Yes	In Process	Yes	
v	IEC Family	IEC Type 1	Tina Tsou, Arm	11/29/201		v	Ware.	Telco,	MVP - better latency, less	Telco/enterprise Edge cloud – for example, MEC or bran	Yes. Lab already		Mare	Arm, Huawei, ENEA	v	K8s, knative, EdgeX, Contiv, Calico OVS-k8s, NFD (open source	Yes. ARM have code to contribute.	Power <50W
	LC I MINY		11111 1200, 74111	1112312011	1	103	103	Enterprise	network load		-		165	Palli, Humai, ENER	103	container orch) K8s, knative, EdgeX, Contiv, Calico OVS-k8s, NFD (open source container orch)	res. At the raise code to constitute.	1 086 -001
Yes	IEC Family	IEC Type 2	Tina Tsou, Arm	11/29/201	R1	Yes	Yes	Telco	MVP	Edge platform with limited resources, for example, SD-W	Yes. Lab already in place.		Yes	Arm, Huawei, ENEA	Yes	OVS-k8s, NFD (open source	Yes. ARM have code to contribute.	
Yes	Network Cloud Family (Unicycle based)	Real Time Edge Media Processing	Prokash Sivo, Radysis	11/29/2011		Yes	Yes	Telco, Enterprise		prohibitive Real time media analytics with Al and ML based applications for high value and media monetization applications Distributed Edge computing using TF distributed compute	e Currently running in		Yes.	Am	Yes.	OVS-OPDK? Preliminary evaluation	Yes.  Security benefits in commercial product. Not	Needs acceleration. Cyborg being evaluated for Operatack.
Yes	Network Cloud	Akraino Network Cloud and TF Integration	Sukdev Kapur	9/1/201		Yes	Yes	Telco	and advance networking features via single SDN controller.	(Remote Compute) architecture Service Chairing at the Edge sites Unified SDN controller for VNFs, CNFs Fabric provisioning for SR-IOV workload Edge workload security TF support for Helm and Ansible base deployments	a lab. Could run or AT*T lab.	n	Yes	Juniper, AT&T	Yes	Openstack, k8s	part of BP.	deployments. Smallest footprint could e 1VM. Scales to 1000s.
Yes	Edge Light and loT Family (Eliot)  Edge Light and loT Family (Eliot)	ELIOT 2: LW Edge	Wenjing Chu, Huawei	11/05/201	R1	No	Yes	Telco	MVP		Yes		Yes	Arm, Huawei, Intel Arm, Huawei, Intel, Juniper	Yes.	k8s, k8s ecosystem, TF, EdgeX, ONAP	Yes.	Release continuously deploys. There when you need it.
165	Kubernetes Native Infrastructure	Provider Acess Edge	Frank Zdarsky, Red Hat	11/15/1	1					Remote @ customer or public buildings	Yes. Lab in place.			Red Hat, Intel, Juniper	res	k8s, TF, Ceph, CRI-O, Kubvirt, Kubeflow, Prometheus,		
Tes	for Edge Family (KNI-E)	Provider Acess Eage	Frank Zdarsky, Red Hat	11/15/1	5 K1	Tes	Yes	Telco	MVP	Reliable & costaller or paties busings	res. Lab in place.		res	Red Hat, Intel, Juniper	Yes	CentOS/CentOS-RT, Helm	res.	
Yes	Kubernetes Native Infrastructure for Edge Family (KNI-E)	Industrial Edge	Frank Zdarsky, Red Hat	11/1/1	R1	Yes	Yes	Edge	MVP				Yes	Red Hat, Intel	Yes.	CentOS/CentOS-RT. Helm kls, TF, Ceph, CRI-O, Kubvirt, Kubeflow, Prometheus, might use Core OS	Yes.	
Yes	Micro Mec	Micro MEC Type 1	Tapio Talligren, Gerald Windsor Nokia	12/1/2011	8. R2	Yes	Yes	Telco, Enterprise	MVP	container. Thus'r far edge. Fixed installation as part of 100 Nt base station extrate one service between the event processing separation by incliners, such as African Services and several services. The "Binast Cigi" As an extension of the events. The "Binast Cigi" and the event services are services and services an			Resources not dedicated yet.	Nokia, Arm	Yes.	RedFish consideration, k8s. EdgeX knative	Yes. LaxTurintSG PCC. At open.	Supports ETSI MEC. CRL-O container reget to export dist and Booker, to back and apply power footprints for each derivisitive.
Yes	Micro Mec	Micro MEC Type 2	Tapio Talligren, Gerald Windsor Nokia	12/1/201	R2	Yes	Yes	Telco, Enterprise	MVP	SFF. Smart City use cases. 5G terminal. Fits in a contain	POC underway. No full fledged lab yet.		Yes.	Nokia, Arm				
			· · ·					Enterprise		A small far edge cloud could be deployed in a stadium.	Nokia lab available							
Ver	Micro Mec	Micro MEC Type 3	Tapio Talligren, Gerald Windsor Nokia	12/1/201	. D2	Ver	Var	Telco,	M/P	niment, or cell tower to support new workloads. Cachina								
165	MICIO MEC	midd MEG Type 3	Tapio Taligieri, Geraid Windsor Nokia	12/1/201	N2	res	res	Enterprise	MIVE.	data, processing data, analyzing data in order to minimize network backhaul while maximizing the end user customer experience.								
Yes	Radio Edge Cloud Family	Radio Edge Cloud	Tapio Talligren, Gerald Windsor Nokia	11/13/201	8 R1	Yes	Yes	Telco	O-RAN Alliance is defining the Radio Intelligent Controller (RIC) and new Interfaces towards the LIFEIG Radio Access Network (RAN). Especially, the RIC has the Especially, the Certarized Unit (EU), and the A1 interface towards and Contestration system such as ONAP. This allows for more intelligence in managing the safe in measures.	RIC. VRAN eligend with 0-8AN inflation, 488 and CCP, 5 sterven. Has come EPICs defined under "As an Operator I want to"	Yes. Labs currently being discussed with AT&T.		Yes. Discussions underway.	AT&T, Nokia, Intel?	Yes	O-RAN, Airship, Redflah, OCP, ONAP	Yes	Joint work around RIC near-RT. Goal is to add new interfaces. Can optimize and reconfigure networks as needed to meet demand. This uses specialized hardware (could be deployed on very thin HVI).
Yes	Far Edge Cloud Family	Starling X Far Edge Distributed Cloud	Jim Einarsson, WRS	11/9/201	3 R1	Yes	Yes		opportunities for operators	A small far edge cloud could be deployed in a stadium, along or, or old treet to support new workloads. Caching data, processing data, anything data in a whiching data in the majority of the intermitte retends backhaul white majoritizing the end user customer experience.	Yes. Four sub clouds two servers each for validation		Yes	Windriver, Intel	Yes	Yes – StarlingX, Kubemetes, ONAF EdgoX, OCP, CentOS, Possibly TF or OOL	Yes	Targeting OCP HW platform — hyperconverged.
Yes	TBD	Time Critical Edge Compute	Shane Dewing, Intel	11/30/201	8 R1	Yes	Yes	Manufacturing, Industrial, IOT	Compute stack for real-time and functionally safe edge deployments	Carrier Edge. Provides a cloud-native SW stack for real- time or time sensistive applications at the Industrial edge, including the capability for a functionally safe hypervisor. Typical worksoak include machine control (closed loop), machine vision inference using Intel OpenVino			Yes	Intel, HPE, Dell, Huawel	Yes.	ACRN, Zephyr, Kubernetes, Kata	Yes.	
Yes	Family Network Cloud	OVS-DPDK Unicycle (Dell)	Andrew Wilkinson, Ericsson	11/30/201	3 R1	Yes	Yes	Telco			Yes. Will support Development CD lab. Cannot open i at this stage to unrestricted public. Verification with high throughput VNF.	it.	Yes. 2HC for 6mos for Airship. 1 HC for 6 months for Akraino.	Ericsson, Dell	Yes	k8s, Airship, possibly Openstack	Docker, Ubuntu, Openstack, k8s, OVS-DPDK, Airship, Redfish	
Yes	Connected Vehicle Family	Tecers Connected Vehicle Blueprint	Robert Qui, Tencent	3/15/201	9 R2	Yes	Yes	All	MEC platform used for Connected Vehicle	MEC platform which can be used to connect vehicles, the general data flows are hermized below: 1 (Graß bette furflict-whicle information 2) Dispatch the traffic-vehicle information to the corresponding deg process unit. Note well: The dispatch policy can be configurable. 3) Process the data in the Edge or Chould and figure out the state of the state of the configurable of the data in the Edge or Chould and figure out the successful addion litems to the vehicle driver 4) Send the successful addion litems to the vehicle driver.	There is a team, resources and lab in place.	A test and simulation lab will be provided in Tencent Cloud Sillicon Valley.	There is a team, resources and lab in place.	Tencent, Arm, Intel, Nokia	The project will operate in a transparent, open, collaborative, and ethical manner at all the times	OpenStack, K8s, Docker, DPDK, OpenNESS, OVS et a	Yes, all open source	
Yes	IEC Family	IEC Type 4	wenping_ying@htc.com	4/16/2019	R2	Yes (Species)	Yes	Telco	VR/AR on the Network Edge	Use case description provided	Require community lab resource May require	Not completed - work in progress	HTC, IBM	HTC, ARM, ATT	Yes	Yes See presentation	Yes (with dependencies on MEC API framework FP)	VR/AR optional components are not all currently open source
Yes	API GW	API GW	ther chin@inwinstack.com	4/25/2019	R2	Yes	Yes	Enterprise	Yes	Yes	community lab	1 node or 3 nodes for HA	Inwinstack	Inwinstack (additional TBD)	Yes	Kong	Yes	
									<u> </u>		resource (VM)			(	1-	· •		

Market   M																			
Marked   Section   Secti	Yes - once MobileEdgeX components open sourced and subject to TSC presentation	IEC	AI/ML and AR/VR applications at Edge	sukhdev@juniper.net Vikram.siwach@mobiledgex.com	4/24/2019	R2	Yes	Sch 5/9/19	Telico	Yes	Yes	MobileEdgeX labs Subsequent validation in ommunity labs	1 Node	MobileEdgeX, JPR	MobileEdgeX, JPR	res	Yes - k8s, OS, TF	MobileEdgeX Opensuoucing code by 30th Sept	Subject to OpenSourcing of all components
See the section of th	Yes	Integrated Cloud Native NFV and Application Family	Multi-server cloud native	srinivasa r addepalli@intel.com	6/4/2019	R2	Yes	sch 6/8/19	Telco Enterprise	Tes	Yes	initially utilize		MobileEdgeX, Aarna	Verizon, Intel, MobileEdgeX, Aarna Networks, Vmware	Yes	Yes - multiple - see proposal silides	vet open source - in process	
Part	TBD, See orange items needing attention	Needs a (new or existing) Family	5G MEC slice system (current very broad - needs to be more specific BP(s))	allenwichen@tercent.com	17/6/2019		Yes	No - Te Be Scheduled		Yes	Yes Cloud Gaming, HS Video Streaming support at edge	Yes	To Be Defined	Tencent, Intel and Arm	Tencent, Intel, ARM and future China mobile	res	Yes - multiple - see proposal silides	Not all components are opensource at this time. Target date Q2 2020 to opensource all SW	
The field of the f	Yes subject to items in orange	ELIOT	A-IOT in smart office	berbertzhao@šencent.com	17/6/2019	R3	Yes		Enterprise	Yes	Humanization of working space	Yes'	To Be Defined	Tencent, Huawei	Tencent, Huawei	res	Yes - multiple - see proposal silides	Yes	A-loT = Artificial Inteligence in IoT
The Control of Control	Yes subject to open sourcing note in R3	The Al Edge	The Al Edge	zhanghechun@baidu.com	9/10/2019	R3	Yes	Yes 8/6/19	Enterprise	Yes	Safety, security, and surveillance	To Be Confirmed	Yes	Baidu, Arm, Intel, Pens State University	Baidu, Arm, Intel, Pens State University	res	Yes - multiple - see proposal silides	Cluster controllier is not - Will be open sourced	
The field of the f	Yes	IEC	SmartNIC for Integrated Edge Cloud	jaxuan@chinamobile.com	2/19/2020	R3	To Be updated	Yes 02/11/20		Yes	Yes	Yes	Yes			res	Yes - see project proposal	Yes	
See 1 Microbian of the present production of the presentation of the present production of the present production of the presentation	Yes - subject to non Open Source components being made available	The Al Edge	RoboTaxi	zhanghechun@baidu.com	10/8/2019	R3	Yes	Yes 02/06/20	Telco Enterprise	Yes	Yes	Yes	Yes	Baidu, Intel, Arm	Baidu, Intel, Arm	res	Yes - see project proposal	Some Al perception SW in vehicle/roadside	
The designation of the designati		5G MEC/Slice system	Enterprise Applications on Light weight 5G Telco	khemendra kumari 3@gmail.com	3/16/2020	R3	Yes	3/18/2020		Yes	Yes	Yes	Yes	Huawei		res	Yes - see project proposal		
Column   C	Yes (to confirm UNH will and can install NVIDIA GPU in existing Thunder X2 god)	IEC	IEC Type 3: Android cloud native applications on Arm servers in edge	Januar@chinamobile.com	2/20/2020	R3	Yes	Presented	Telco	Yes	Yes	No (Community lab only)	Yes	Yes, NVIDIA		res	Yes - see project proposal	Yes	
The A Life Sign Plane From Process and Plane Sign Plane From Process and Plane Sign Plan		ICN	Private LTE/5G ICN	akapadia@aarnanetworks.com															
For Exercise to September 1 Public Court Edge Interface	Webank lab TBD otherwise Yes	The Al Edge Blueprint Family	Federated ML application at edge	siyanghan@webank.com	3/23/2020	TBD	Yes			Yes	Yes	(TBD in webank bu	Yes		Webank, Inwinstack, Balsu, Arm	res	Yes - see project proposal	Yes w/ manual deployment; Application on client TBD	
Part   Court	Yes	KubeEdge Edge Service	ML Inference Officeding	jane.shen@futurewei.com	3/26/2020	R4	Yes	4/7/2020	Telco Enterprise	Yes	Yes	Yes	Yes	Yes		res	Yes - see project proposal	Yes	
For including specialistic spec	Yes (Species template to be added to proposal page)	Public Cloud Edge Interface	Public Cloud Edge Interface	lijanyj@chinamobile.com	4/16/2020	R3		4/16/2020		Yes	Yes	Equinix)	Yes	Yes	China Mobile, Tencent, Albaba, Equinix, AT&T,	res	Yes - see project proposal	Yes	Initially manual deployment of infra corponents
For Lightening Variety operations by Management Management (Part operations) and the properties and state in the proposal and another in the properties and the proposal and another in the properties and state in the proposal and another i	Yes (subject to updating terminates and name)	IIOT Device Edge	Predictive Maintenance using FLIR Camera	awilliams@contractor.linusfoundation.org	4/9/2020	R4	Yes	3/13/2020	Industrial IOT	Yes	Yes		Yes	Yes	Dianomic, Arm, Advantech,	res	Yes - see project proposal	Yes	
ability Teams (CA)  ABILITY Teams (Discounted)  ABILITY Te	Yes (subject to updating templateswith VM requirement,	ICN		malikasifmahmoodawan@gmail.com	8/18/2020	) R5	Yes	3/5/2020	Telco	Yes	Yes	Yes, NCL (Network Convergence Lab), Jeju National University, South	VM based (Asif will update Species template with	Yes	Jeju National University,	res	Yes	Yes	eNB simulators OAISIM (open source) EPC OAISIM (opens source)
Includation Place (Primer Proport to reconstruct Receives After General Conference (ART General Conference ART Gen	Yes (subject to adding two tables in proposal page as identified - use case and contributors)	ICN	Multi-Tenant Secure Cloud Native Platform	Mishra, Sharad D sharad.d.mishra@intel.com	9/8/2020	R5	To be added		location hosting/service	Yes	Yes	Yes, Intel's existing ICN Akraino lab	Yes		Aarnanetworks, Verizon, Intel	r'es	Yes	Yes	Add contributor table in proposal page and use case table
Includation Place (Primer Proport to reconstruct Receives After General Conference (ART General Conference ART Gen		TSC Technical Document				_													
Project dispositive years in all shower-case without any spiral disposition in project and provided in the control of the project plan are with different of control of the project plan are with different of control of the project plan are with different of control of the project plan are with different of control of the project plan are with different of control of the project plan are with different of the project plan are with different of the project plan are with different of the project plan are with a project plan are control of the project plan are control of t			t has resources: Project in early stages of develop	ment: Outcome is MVP (demonstrating value	ue and gatherin	a feedback): Not f	or Production												
Buseriar simplified: "declarative confunction from the green doubt stack"    Part   Part   Amendment   Part   Part		Proposed regionably name is all lever case without any special diseasation. Project Condition than company of entition is defined and focusersated Project Condition than company of entition is defined and focusersated Recognition of the condition of the conditi																	
Buseriar simplified: "declarative confunction from the green doubt stack"    Part   Part   Amendment   Part   Part																			
BP Family simplified constant technical attributes supporting a common POD, in "displaying kubernetes underdous", in RHEL or Ubuntu doe snot denall family, ATT Network Cloud is a BP family for teloo VNFs			configuration of an edge cloud stack?	-	-	_					1							-	
POD - Point of Delivery (see Technical Document for descriptors)		BP Family simplified constant to	chnical attributes supporting a common POD, ie "d	seploying kubernetes undercloud*, ie RHEL	or Ubuntu doe	snot derail family,	ATT Network Cloud	is a BP family f	for teloo VNFs		1								
		POD Point of Delivery (see Tec	hnical Document for description)																